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Technical Document 292

SDMS DD 963 SIGNAL LIST

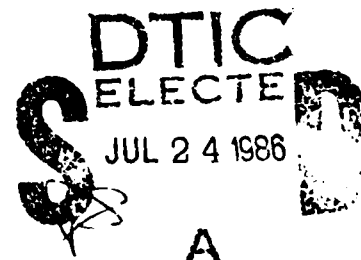
DD 963 class ship signals to be multiplexed
by SDMS for TECHEVAL/OPEVAL

JD Dickinson

1 November 1979

Prepared for
Naval Sea Systems Command (NAVSEA 61R)
Washington DC 20362

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ABSTRACT

This document identifies the candidate signals to be multiplexed by the Shipboard Data Multiplex System (SDMS) during TECEVAL and OPEVAL on a DD 963 class ship. It groups the candidate signals according to the interfacing user equipments. It contains block diagrams of the user-equipment groups, showing multiplexed signals, and gives the locations of signals and equipments. It provides additional sorts and characteristics of the SDMS TECEVAL OPEVAL installation resulting from the candidate signal list as implemented by SDMS; the list is to be used as a basis for further system engineering needed to accomplish installation planning and design for TECEVAL OPEVAL of the SDMS. The final recommendation of signals to be used will be based on SDMS I/O module availability and circuit compatibility, user signal location and access, and completion of the system engineering for SDMS installation on the DD 963 class ship.

CONTENTS

INTRODUCTION . . .	page 3
Background . . .	3
ADAP computer program . . .	3
CANDIDATE SIGNAL LIST . . .	3
Signal list and associated key tables . . .	3
Signal flow diagrams . . .	7
Locations of signals and equipments . . .	7
ADDITIONAL SORTS AND TABULATIONS . . .	10
SDMS transmission characteristics . . .	10
Signal trace . . .	10
Input/output wire list . . .	10
Input/output module count and spare capacity . . .	10
Remote multiplexer configurations . . .	10
Remote multiplexer and input/output unit summaries by zone . . .	10
Message trace table . . .	10
System data . . .	10
APPENDIX A: TABULATED SIGNAL LIST . . .	11
APPENDIX B: INPUT/OUTPUT MODULE DESCRIPTIVE DATA . . .	23
APPENDIX C: INPUT/OUTPUT MODULE AND SIGNAL CODE LETTER ASSIGNMENT TABLE . . .	25
APPENDIX D: COMPARTMENT ADDRESSES AND LOCATIONS . . .	27
APPENDIX E: SIGNAL FLOW DIAGRAMS . . .	31
APPENDIX F: SIGNAL SOURCES AND SINKS, WITH COMPARTMENT ADDRESSES . . .	43
APPENDIX G: ZONE BOUNDARIES . . .	49
APPENDIX H: REMOTE MULTIPLEXER AND INPUT/OUTPUT UNIT LOCATION SUMMARY . . .	51
APPENDIX I: SDMS TRANSMISSION CHARACTERISTICS OF EACH CANDIDATE SIGNAL . . .	53
APPENDIX J: SIGNAL TRACE TABLE . . .	63
APPENDIX K: INPUT/OUTPUT INSTALLATION AND WIRING LIST . . .	69
APPENDIX L: INPUT/OUTPUT MODULE COUNT AND SPARE CAPACITY . . .	89
APPENDIX M: REMOTE MULTIPLEXER CONFIGURATIONS . . .	93

APPENDIX N: REMOTE MULTIPLEXER AND INPUT/OUTPUT UNIT SUMMARIES BY
ZONE AND SUBZONE . . . 99

APPENDIX O: MESSAGE TRACE TABLE . . . 117

APPENDIX P: SYSTEM SUMMARY DATA . . . 125

INTRODUCTION

BACKGROUND

The SDMS-EDM Input/Output Module (IOM) Committee was active from June 1978 to June 1979 in establishing a DD 963 candidate signal list for TECHEVAL. NAVSEA established guidelines for this activity, which include the following:

Five main SDMS data buses are to be used.

Reconfiguration to the conventional ship's wiring must be easily accomplished by ship's force.

The candidate signal list should contain representative signals from as many ship systems as possible.

The candidate list should contain a representative mix of signal types and functions.

Changes to the signal list as provided by the IOM Committee have been made to accommodate IOM design characteristics. Further changes to the candidate signal list may be required as the details of the user-equipment interfaces are developed. This signal list is the current basis for further system engineering needed for the SDMS TECHEVAL.

ADAP COMPUTER PROGRAM

Most of the data printouts presented in this document are maintained in a computer data base by means of a computer program called ADAP, developed by Rockwell International. The Candidate Signal List below introduces portions of this data base showing candidate signals in DD 963 user-equipment groupings, as well as IDM and DD 963 descriptive data.

The last section introduces additional sorts and tabulations made by ADAP.

CANDIDATE SIGNAL LIST

SIGNAL LIST AND ASSOCIATED KEY TABLES

Figure 1 shows candidate DD 963 class ship systems for multiplexing by SDMS. Figures 2 and 3 show proposed SDMS interconnectivity for the candidate systems.

The signal list in appendix A will be used to implement the interconnectivity shown in figures 2 and 3. Appendix B provides input/output module (IOM) descriptive data. Appendix C provides IOM and signal code letter assignments used in the signal list tabulation. Appendix D provides the definition of compartment addresses in terms of compartment names and level, frame, and transverse locations. The compartment address is a computer-assigned number representing compartment names in the tabulated signal list (appendix A) and the locations of signal sources and sinks (appendix F).

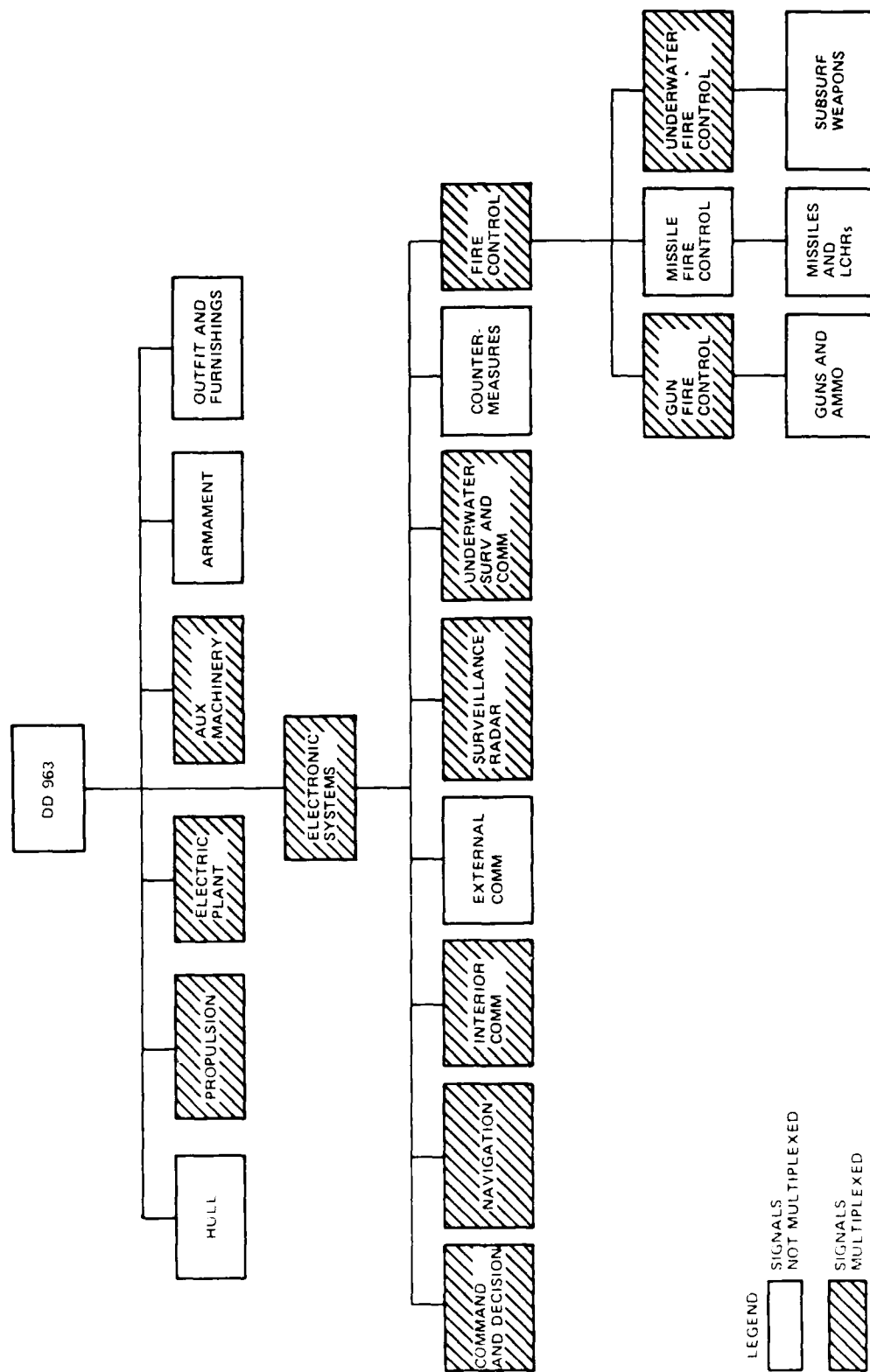
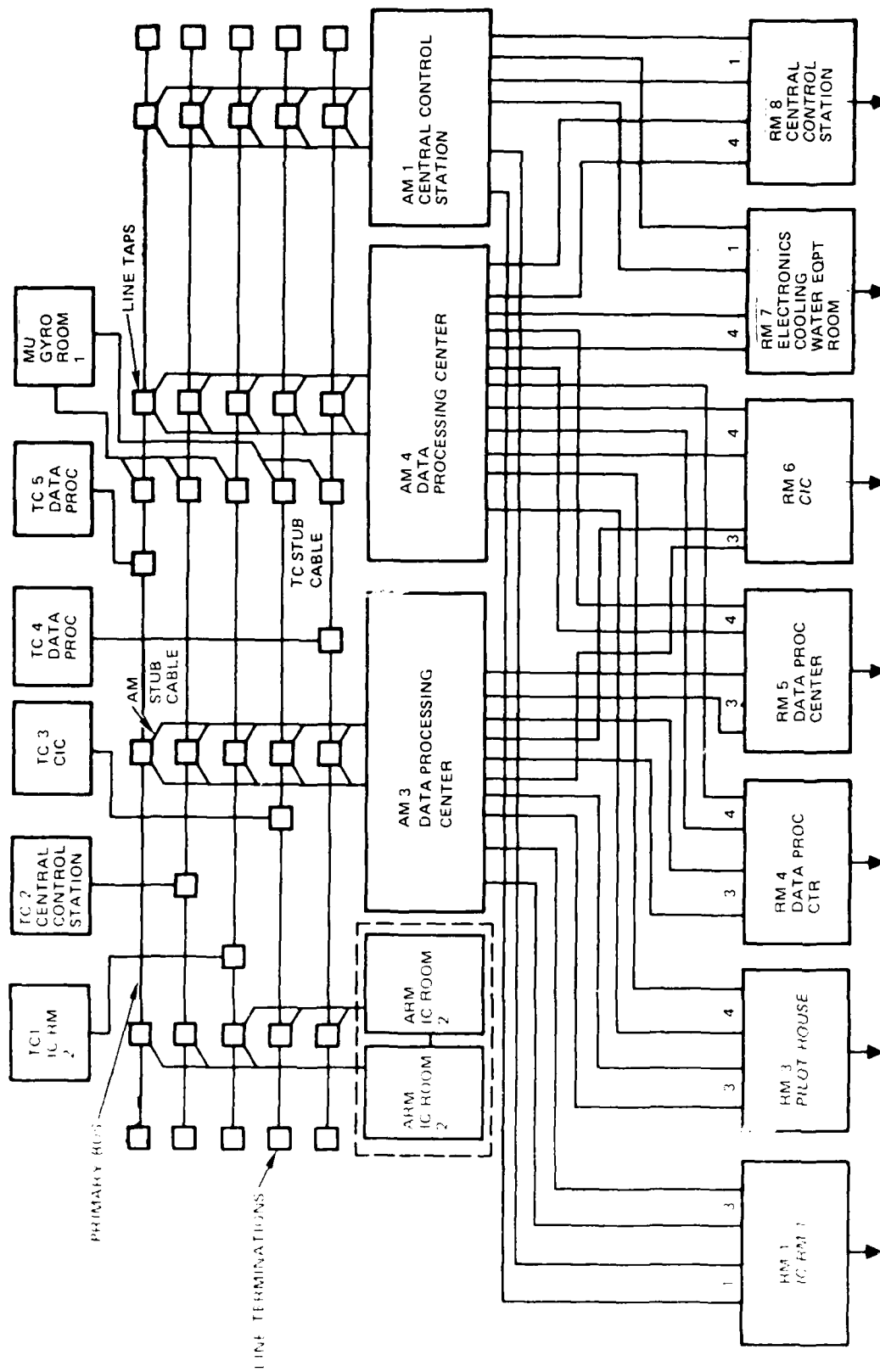


Figure 1. Candidate systems for multiplexing.



(INTERCONNECTIVITY CONTINUED IN FIGURE 3)

Figure 2. SDMS interconnectivity.

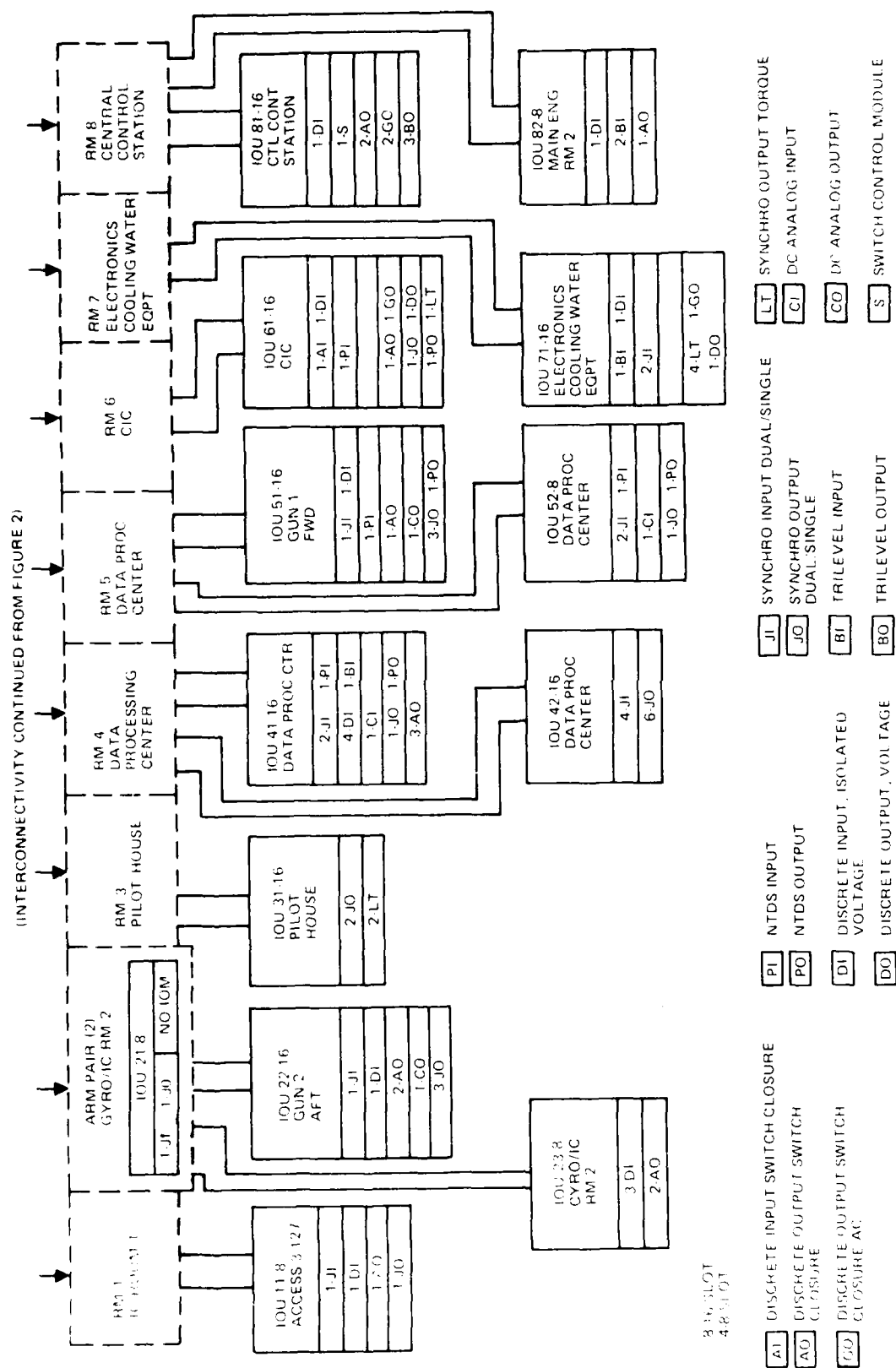


Figure 3. SDMS interconnectivity.

SIGNAL FLOW DIAGRAMS

Appendix E shows DD 963 class ship multiplexed signals, first in overall ship diagrams, then followed by ten system group diagrams as follows:

<u>System</u>	<u>Group</u>
ASW Weapon	01
Gun Weapon	02
Navigation	03
Electric Plant	04
Propulsion	05
Command and Control	06
Underwater Surveillance	07
Radar Surveillance	08
Interior Communication	09
Auxiliary	10

Notice that no SDMS equipment is shown. Instead, the conventional signal flow line is distinguished to indicate signals that are to be multiplexed by SDMS.

LOCATIONS OF SIGNALS AND EQUIPMENTS

Figures 4 and 5 show general locations of signals and SDMS equipments.

Appendix F gives signal source and sink locations, with compartment addresses as defined in appendix E.

Another computer-defined code number, called the zone number, is used in some of the following computer output listings. The zone number is related to the subzone number, remote multiplexer (RM) number, and input/output unit (IOU) number as follows:

<u>Name</u>	<u>Configuration</u>	<u>Range</u>	<u>Example</u>
zone number	XO	10-80	10
subzone number	Y	1-4	2
RM number	X	1-8	3
IOU number	XY	11-82	21

There is one computer output table for which the zone number and alternate (ALT) number do not conform to the foregoing description. Future revisions of the ADAP program will correct this discrepancy. This special case is shown in appendix G, in which the zone and ALT numbers may be considered to be IOU numbers. The ALT IOU number was included in earlier lists for redundant/critical signal configurations and has not been deleted from the computer program. Appendix G provides the zone boundary definitions.

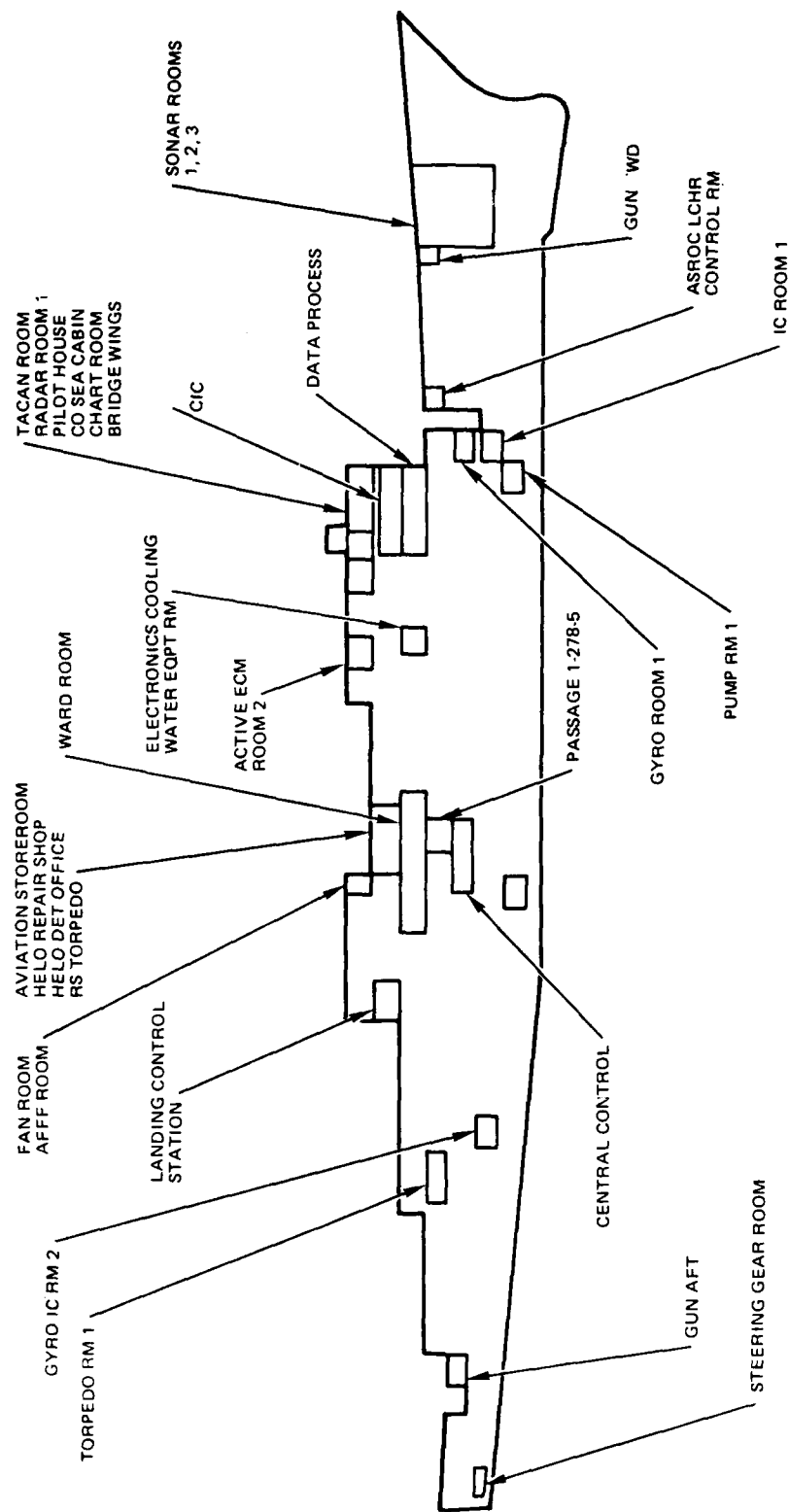


Figure 4. Signal source and sink locations.

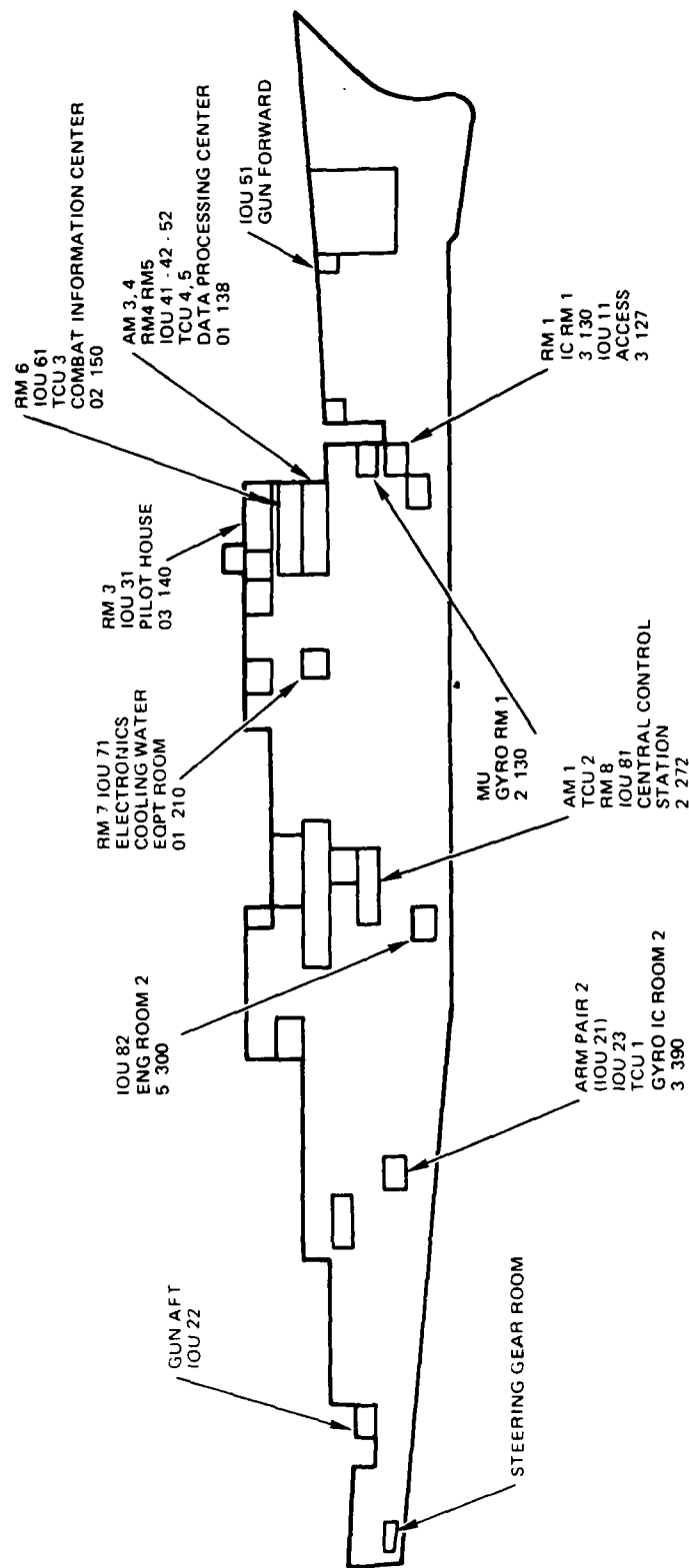


Figure 5. Location of SDMS equipment.

Appendix H provides an RM and IOU location summary showing deck, frame and transverse distances.

ADDITIONAL SORTS AND TABULATIONS

SDMS TRANSMISSION CHARACTERISTICS

Update modes, priority, and update rates of each candidate signal are given in appendix I.

SIGNAL TRACE

Signal connectivity from the IOU slot at the input (source) to the IOU slot at the output (sink) is provided in appendix J.

INPUT/OUTPUT WIRE LIST

The input/output (I/O) installation and wiring list is provided in appendix K.

INPUT/OUTPUT MODULE COUNT AND SPARE CAPACITY

Appendix L shows IOM count by zone and spare IOM capacity.

REMOTE MULTIPLEXER CONFIGURATIONS

Appendix M shows the configuration of each RM.

REMOTE MULTIPLEXER AND INPUT/OUTPUT UNIT SUMMARIES BY ZONE

Appendix N shows RM/IOU summaries by zone and subzone.

MESSAGE TRACE TABLE

Appendix O shows message flow by SDMS message number.

SYSTEM DATA

System summary data, including total numbers of units in SDMS, spare capacity, and total output signal types, are given in appendix P.

APPENDIX A: TABULATED SIGNAL LIST

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INPUT SIGNAL LIST

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PAGE

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SIGNAL 54 ID	SIGNAL NAME	SIGNAL TRACE CD	TYPE	ADDR	SOURCE EQPI/CKT	SWB	TYPE	ADDR	SINK EQPI/CKT	SWB	MODE	RED	PRIY	UPDATE RATE	DIG WDS	RSK SLG	ASM DSP
008101	OSM TO RADAR AZIMUTH CONVERT		M1	330	02		M1	350						300			
008202	OSM TO RADAR AZIMUTH CONVERT		M2	330	02		M1	350						300			
009301	OSM TO TOT #2 (VIA ICSS)		M1	330	02		LT	560						10			
009401	OSM TO SOT M41 MOD3		M1	330	02		M1	330						300			
009502	OSM TO SOT M41 MOD3		M2	330	02		M2	330						300			
009601	OSM TO SOT M41 MOD3		M1	330	02		M1	330						300			
009702	OSM TO SOT M41 MOD3		M2	330	02		M2	330						300			
1001	PITCH TO SOT M41 MOD3		M1	330	02		M1	330						300			
1002	PITCH TO SOT M41 MOD3		M2	330	02		M2	330						300			
1010	OSM SHIP SPEED TO SOT M41 MOD3		M1	330	02		M1	330						300			
1012	OSM SHIP SPEED TO SOT M41 MOD3		M2	330	02		M2	330						300			
1013	AVO SELECT ACQ		D	320	02		A	030						10			
1014	AVO SELECT AP		D	320	02		A	030						10			
1015	AVO SELECT COW		D	320	02		A	030						10			
1016	AVO SELECT CVT		D	320	02		A	030						10			
1017	AVO SELECT ILL		D	320	02		A	030						10			
1018	AVO SELECT PR		D	320	02		A	030						10			
1019	AVO SELECT RAP		D	320	02		A	030						10			
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1021	AVO SELECT STD CHG		D	320	02		A	030						10			
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1052	AVO SELECT WP		D	320	02		A	030						10			
1053	AVO SELECT WP		D	320	02		A	030						10			
1054	AVO SELECT WP		D	320	02		A	030						10			
1055	AVO SELECT WP		D	320	02		A	030						10			
1056	AVO SELECT WP		D	320	02		A	030						10			
1057	AVO SELECT WP		D	320	02		A	030						10			
1058	AVO SELECT WP		D	320	02		A	030						10			
1059	AVO SELECT WP		D	320	02		A	030						10			
1060	AVO SELECT WP		D	320	02		A	030						10			
1061	AVO SELECT WP		D	320	02		A	030						10			
1062	AVO SELECT WP		D	320	02		A	030						10			
1063	AVO SELECT WP		D	320	02		A	030						10			
1064	AVO SELECT WP		D	320	02		A	030						10			
1065	AVO SELECT WP		D	320	02		A	030						10			
1066	AVO SELECT WP		D	320	02		A	030						10			
1067	AVO SELECT WP		D	320	02		A	030						10			
1068	AVO SELECT WP		D	320	02		A	030						10			
1069	AVO SELECT WP		D	320	02		A	030						10			
1070	AVO SELECT WP		D	320	02		A	030						10			
1071	AVO SELECT WP		D	320	02		A	030						10			
1072	AVO SELECT WP		D	320	02		A	030						10			
1073	AVO SELECT WP		D	320	02		A	030						10			
1074	AVO SELECT WP		D	320	02		A	030						10			
1075	AVO SELECT WP		D	320	02		A	030						10			
1076	AVO SELECT WP		D	320	02		A	030						10			
1077	AVO SELECT WP		D	320	02		A	030						10			
1078	AVO SELECT WP		D	320	02		A	030						10			
1079	AVO SELECT WP		D	320	02		A	030						10			
1080	AVO SELECT WP		D	320	02		A	030						10			
1081	AVO SELECT WP		D	320	02		A	030						10			
1082	AVO SELECT WP		D	320	02		A	030						10			
1083	AVO SELECT WP		D	320	02		A	030						10			
1084	AVO SELECT WP		D	320	02		A	030						10			
1085	AVO SELECT WP		D	320	02		A	030						10			
1086	AVO SELECT WP		D	320	02		A	030						10			
1087	AVO SELECT WP		D	320	02		A	030						10			
1088	AVO SELECT WP		D	320	02		A	030						10			
1089	AVO SELECT WP		D	320	02		A	030						10			
1090	AVO SELECT WP		D	320	02		A	030						10			
1091	AVO SELECT WP		D	320	02		A	030						10			
1092	AVO SELECT WP		D	320	02		A	030						10			
1093	AVO SELECT WP		D	320	02		A	030						10			
1094	AVO SELECT WP		D	320	02		A	030						10			
1095	AVO SELECT WP		D	320	02		A	030						10			
1096	AVO SELECT WP		D	320	02		A	030						10			
1097	AVO SELECT WP		D	320	02		A	030						10			
1098	AVO SELECT WP		D	320	02		A	030						10			
1099	AVO SELECT WP		D	320	02		A	030						10			
1100	AVO SELECT WP		D	320	02		A	030						10			
1101	AVO SELECT WP		D	320	02		A	030						10			
1102	AVO SELECT WP		D	320	02		A	030						10			
1103	AVO SELECT WP		D	320	02		A	030						10			
1104	AVO SELECT WP		D	320	02		A	030						10			
1105	AVO SELECT WP		D	320	02		A	030						10			
1106	AVO SELECT WP		D	320	02		A	030						10			
1107	AVO SELECT WP		D	320	02		A	030						10			
1108	AVO SELECT WP		D	320	02		A	030						10			
1109	AVO SELECT WP		D	320	02		A	030						10			
1110	AVO SELECT WP		D	320	02		A	030						10			
1111	AVO SELECT WP		D	320	02		A	030						10			
1112	AVO SELECT WP		D	320	02		A	030						10			
1113	AVO SELECT WP		D	320	02		A	030						10			
1114	AVO SELECT WP		D	320	02		A	030						10			
1115	AVO SELECT WP		D	320	02		A	030						10			
1116	AVO SELECT WP		D	320	02		A	030						10			
1117	AVO SELECT WP		D	320	02		A	030						10			
1118	AVO SELECT WP		D	320	02		A	030						10			
1119	AVO SELECT WP		D	320	02		A	030						10			
1120	AVO SELECT WP		D	320	02		A	030		</							

INPUT SIGNAL LIST

GUN WEAPON SYSTEM 02

10/28/79 PAGE 2

SIGNAL SA ID CL	SIGNAL NAME	SIGNAL	TRACE CD	TYPE	ADDR	SOURCE EQUI/CKT SWB	TYPE	ADDR	SINK EQUI/CKT SWB	UPDATE MODE	REQ	PRI	RATE	DIG WDS	RSK	SIG ASM DSP
1070	FUSE SETTER RUN	MT52		D	320	02		A	150				10			
1071	FUSE SETTER SAFE	MT52		D	320	02		A	150				10			
1072	LOAD ORDER SINGLE	MT52		D	320	02		A	150				10			
1073	LOAD ORDER CONTINUOUS	MT52		D	320	02		A	150				10			
1074	GUN FUSED	MT52		D	150	02		A	320				10			
1075	GUN TO STAND BY	MT52		D	150	02		A	320				10			
1076	GUN READY TO FIRE	MT52		D	150	02		A	320				10			
1077	WOUND SYSTEM	MT52		D	150	02		A	320				10			
1078	GUN ELEVATION ORDER	MT52		M1	321	02		M1	150				300			
1079	GUN ELEVATION ORDER	MT52		M2	321	02		M2	150				300			
1080	GUN ELEVATION ORDER	MT52		M1	560	02		M1	150				300			
1081	GUN ELEVATION ORDER	MT52		M2	560	02		M2	150				300			
1082	GUN ELEVATION ORDER	MT52		M1	560	02		M1	340				300			
1083	GUN ELEVATION ORDER	MT52		M2	560	02		M2	340				300			
1084	ELEVATION MAIL ORDER	MT52		C	321	02		C	150				300			
1085	GUN TRAIN ORDER	MT52		M1	321	02		M1	150				300			
1086	GUN TRAIN ORDER	MT52		M2	321	02		M2	150				300			
1087	GUN TRAIN ORDER	MT52		M1	560	02		M1	150				300			
1088	GUN TRAIN ORDER	MT52		M2	560	02		M2	150				300			
1089	GUN TRAIN ORDER	MT52		M1	560	02		M1	340				300			
1090	GUN TRAIN ORDER	MT52		M2	560	02		M2	340				300			
1091	GUN ELEVATION POSITION	MT52		M1	321	02		M1	321				300			
1092	GUN ELEVATION POSITION	MT52		M2	321	02		M2	321				300			
1093	GUN ELEVATION POSITION	MT52		M1	150	02		M1	321				300			
1094	GUN ELEVATION POSITION	MT52		M2	150	02		M2	321				300			
1095	GUN ELEVATION POSITION	MT52		M1	150	02		M1	340				300			
1096	GUN ELEVATION POSITION	MT52		M2	150	02		M2	340				300			
1097	GUN TRAIN POSITION	MT52		M1	150	02		M1	321				300			
1098	GUN TRAIN POSITION	MT52		M2	150	02		M2	321				300			
1099	GUN TRAIN POSITION	MT52		M1	321	02		M1	321				300			
1100	GUN TRAIN POSITION	MT52		M2	321	02		M2	321				300			
1101	GUN TRAIN POSITION	MT52		M1	150	02		M1	340				300			
1102	GUN TRAIN POSITION	MT52		M2	150	02		M2	340				300			
1103	GUN TRAIN POSITION	MT52		M1	150	02		M1	490				300			
1104	GUN TRAIN POSITION	MT52		C	321	02		C	150				300			
1105	TRAIN RATE ORDER	MT52		M1	321	02		M1	150				300			
1106	FUSE SET ORDER	MT52		M2	321	02		M2	150				300			
1107	FUSE SET ORDER	MT52		M1	560	02		M1	340				300			
1108	TGT-2 DESIGNATED RANGE			M2	560	02		M2	340				300			
1109	TGT-2 DESIGNATED RANGE			A	370	02		SD	050				10			
1110	WT52 SELECT #1-86			A	370	02		SD	050				10			
1111	WT52 SELECT #2			A	370	02		SD	050				10			
1112	POSITION SELECT SDC			A	370	02		SD	050				10			
1113	POSITION SELECT EAT			A	370	02		SD	050				10			

NAVIGATION SYSTEM 03									
10/29/79 PA. 1									
SIGNAL SW ID CL	SIGNAL NAME	SIGNAL		SOURCE		SINK		UPDATE	
		TRACE CD	TYPE	ADDR	EQUI/CKT SWB	TYPE	ADDR	MODE	RED PRIY RATE WDS
0761A1	00H INDICATOR PILOT HOUSE	M1	190	03		M1	400		10
0762A2	00H INDICATOR PILOT HOUSE	M2	190	03		M2	400		10
0771A1	00H INDICATOR 10 S GYRO RM 2	M1	190	03		J	200		10
0781A1	00H INDICATOR #1 CIC	M1	190	03		J	380		10
0791A1	00H INDICATOR #2 CIC	M1	190	03		J	390		10
0801A1	00H 170 DATA PROCESSING CTR	M1	190	03		J	330		10
0811A1	00H 170 VERT PILOT BRD (CIC)	M1	190	03		LT	430		10
0821A1	00H 170 SONAR CONTROL (CIC)	M1	190	03		J	410		10
0830	00H INDICATOR 10 S RM #1	J	210	03		J	180		10
0841B1	00H 170 STEERING GEAR RM	M1	210	03		M1	230		10
0852B2	00H 170 STEERING GEAR RM	M2	210	03		M2	230		10
0861B1	00H 170 CHIP CONTROL CONSOLE	M1	210	03		M1	490		10
0872B2	00H 170 CHIP CONTROL CONSOLE	M2	210	03		M2	490		10
0881B1	00H 170 TACAN	M1	330	03		L1	440		300
0892B2	00H 170 TACAN	M2	330	03		L2	440		300
0901D1	00H 170 TACAN	M1	330	03		L1	440		10
1020	TACAN EMERGENCY NORMAL	A	420	03		D	440		10
1030	TACAN EMERGENCY SHUTDOWN	A	420	03		D	440		10
1040	TACAN EMERGENCY SWITCH INDICATOR	D	440	03		A	420		10
1050	TRANSMITTER ON INDICATOR	D	440	03		A	420		10
1060	TRANSMITTER STANDBY	D	440	03		A	420		10
1070	MONITOR ALARM	D	440	03		A	420		10
1080	SYSTEM NORMAL	D	440	03		D	420		10

ELECTRIC PLANT SYSTEM 04									
INPUT SIGNAL LIST									
SIGNAL SW ID CL	SIGNAL NAME	SIGNAL TRACE CD	TYPE	ADDR	SOURCE EQPT/CKT SWB	TYPE	ADDR	SINK EQPT/CKT SWB	MODE
									RED_PRTY_RATE_WDS
									UPDATE RATE
									ASK SIG
									ASM DSP
0060	TEMP INLET TEMP HI ALARM		D	220	04	A	090		10
0070	COND FILTER DELTA P HIGH		D	220	04	A	090		10
0080	FULL OIL FILTER DELTA P HIGH		D	220	04	A	090		10
0090	LOW TEMPERATURE HIGH ALARM		D	220	04	A	090		10
0100	GEN OIL TEMP HIGH ALARM		D	220	04	A	090		10
0110	GENERATOR STATOR TEMP HIGH		D	220	04	A	090		10
0120	AIR TEMPERATURE HIGH ALARM		D	220	04	A	090		10
0130	RYR BEARING TEMP HIGH ALARM		D	220	04	A	090		10
0140	FRY BEARING TEMP HIGH ALARM		D	220	04	A	090		10
0150	LUBS PRESSURE LOW ALARM		D	220	04	A	090		10
0160	HEATER ON, GEN #3 NON/IND		D	170	04	A	090		10
0170	GEN OILN (TRIP'D) STATUS SIG		D	170	04	A	090		10
0180	GEN CLOSED STATUS SIGNAL		D	170	04	A	090		10
0210	GEN LP AIR MAN START COMMAND		D	090	04	A	160		10

INTEL SIGNAL 1152

PROPULSION SYSTEM 05

10/29/79

PAGE 1

SIGNAL ID	SIGNAL NAME	SIGNAL		SOURCE		SINK		UPDATE		UPDATE RATE	DIG WDS	RSK ASM	SIG DSP
		TRACE	CD	TYPE	ADDR	EQPT/CNT	SWB	TYPE	ADDR				
CC00	TANK TEMPERATURE SW 1			D	130	05		A	290		10		
CC02	TANK TEMPERATURE SW 2			D	140	05		A	290		10		
CC03	SEWAGE PLANT PRESSURE SWITCH			D	300	05		A	250		10		
CC04	SWITCH PORT REDUCTION GEAR A			D	C80	05		A	240		10		
CC041	SWITCH PORT REDUCTION GEAR B			D	080	05		A	240		10		
CC05	OIL LEVEL SWITCH SUBD HUB			D	120	05		A	280		10		

COMMAND AND DECISION SYSTEM 06																					
INPUT SIGNAL LIST			SIGNAL NAME		SIGNAL		SOURCE		SINK												
SIGNAL SW	ID	CL	TRACE	CD	TYPE	ADDR	EQPT/CKT	SWB	TYPE	ADDR	EQPT/CKT	SWB	MODE	RED	PRTY	RATE	WDS	UPDATE	DIG	RSK	SIG
0740			I/O DISPLAY	GP	AN/UYA-6	IN			P	435	06		P	355			40		50		
0750			I/O DISPLAY	GP	AN/UYA-6	OUT			P	355	06		P	435			40		50		
											</										

10/28/79

UNDERWATER SURVEILLANCE SYSTEM 07

UNDERWATER SURVEILLANCE SYSTEM														
SIGNAL SW 10 CL	SIGNAL NAME	SIGNAL		SOURCE		SINK		UPDATE		UPDATE DIG WDS	RSM SIG ASM DSP			
		TRACE CD	TYPE	ADDR	EQPT/CNT	SWB	TYPE	ADDR	EQPT/CNT			SWB	MODE	RED
0720	SONAR TGT SIMULATOR INPUT		P	235	07		P	320					40	50
0730	SONAR TGT SIMULATOR OUTPUT		P	320	07		P	235					40	50
0831	SONAR TGT TO AN SOS-53 SONAR (ICSS)		M1	340	07		M1	010					10	
0842	SONAR TGT TO AN SOS-53 SONAR (ICSS)		M2	340	07		M2	010					10	
094101	ROLL TO SOS-53 SONAR (ICSS)		M1	330	07		M1	010					10	
094202	ROLL TO SOS-53 SONAR (ICSS)		M2	330	07		M2	010					10	
0971	PITCH TO SOS-53 SONAR (ICSS)		M1	330	07		M1	010					10	
0972	PITCH TO SOS-53 SONAR (ICSS)		M2	330	07		M2	010					10	

RADAR SURVEILLANCE SYSTEM 08

SIGNAL SW		SIGNAL NAME		SIGNAL		SOURCE		UPDATE		UPDATE		RSK SIG	
ID	CL	CD	TYPE	ADDR	ADDR	CD	TYPE	ADDR	ADDR	CD	TYPE	ADDR	ADDR
00101		00101	00101	00101	00101	00101	00101	00101	00101	00101	00101	00101	00101
00102		00102	00102	00102	00102	00102	00102	00102	00102	00102	00102	00102	00102
1200		1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
1300		1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
1310		1310	1310	1310	1310	1310	1310	1310	1310	1310	1310	1310	1310
1320		1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320
1330		1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330
1340		1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340
1350		1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
1360		1360	1360	1360	1360	1360	1360	1360	1360	1360	1360	1360	1360
1370		1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370
1380		1380	1380	1380	1380	1380	1380	1380	1380	1380	1380	1380	1380
1390		1390	1390	1390	1390	1390	1390	1390	1390	1390	1390	1390	1390
1400		1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400
1410		1410	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410
1420		1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420	1420
1421		1421	1421	1421	1421	1421	1421	1421	1421	1421	1421	1421	1421
1430		1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430
1440		1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440

SIGNAL SW ID CL	SIGNAL NAME	SIGNAL TRACE CD	TYPE	ADDR	SOURCE EQUI/CNT	SMB	TYPE	ADDR	SINK EQUI/CNT	SMB	MCDE	RED	PRTY	RATE	WDS	UPDATE DIG	SIG ASM DSP
1000	HI TEMP SET-B (AV STORE RV)		B	460	09		B	100								40	
1001	HI TEMP SET-A (AV TORD LAR)		B	470	09		B	100								40	
1002	HI TEMP SET-C (AV TORD LAR)		B	480	09		B	100								40	
1003	HI TEMP SET-D (AV TORD LAR)		B	490	09		B	100								40	
1004	HI TEMP SET-E (AV TORD LAR)		B	500	09		B	100								40	
1005	HI TEMP SET-F (AV TORD LAR)		B	510	09		B	100								40	
1006	HI TEMP SET-G (AV TORD LAR)		B	520	09		B	100								40	
1007	HI TEMP SET-H (AV TORD LAR)		B	530	09		B	100								40	
1008	HI TEMP SET-I (AV TORD LAR)		B	540	09		B	100								40	
1009	HI TEMP SET-J (AV TORD LAR)		B	550	09		B	100								40	
1010	HI TEMP SET-K (AV TORD LAR)		B	560	09		B	100								40	
1011	HI TEMP SET-L (AV TORD LAR)		B	570	09		B	100								40	
1012	HI TEMP SET-M (AV TORD LAR)		B	580	09		B	100								40	
1013	HI TEMP SET-N (AV TORD LAR)		B	590	09		B	100								40	
1014	HI TEMP SET-O (AV TORD LAR)		B	600	09		B	100								40	
1015	HI TEMP SET-P (AV TORD LAR)		B	610	09		B	100								40	
1016	HI TEMP SET-Q (AV TORD LAR)		B	620	09		B	100								40	
1017	HI TEMP SET-R (AV TORD LAR)		B	630	09		B	100								40	
1018	HI TEMP SET-S (AV TORD LAR)		B	640	09		B	100								40	
1019	HI TEMP SET-T (AV TORD LAR)		B	650	09		B	100								40	
1020	HI TEMP SET-U (AV TORD LAR)		B	660	09		B	100								40	
1021	HI TEMP SET-V (AV TORD LAR)		B	670	09		B	100								40	
1022	HI TEMP SET-W (AV TORD LAR)		B	680	09		B	100								40	
1023	HI TEMP SET-X (AV TORD LAR)		B	690	09		B	100								40	
1024	HI TEMP SET-Y (AV TORD LAR)		B	700	09		B	100								40	
1025	HI TEMP SET-Z (AV TORD LAR)		B	710	09		B	100								40	
1026	HI TEMP SET-AA (AV TORD LAR)		B	720	09		B	100								40	
1027	HI TEMP SET-AB (AV TORD LAR)		B	730	09		B	100								40	
1028	HI TEMP SET-AC (AV TORD LAR)		B	740	09		B	100								40	
1029	HI TEMP SET-AD (AV TORD LAR)		B	750	09		B	100								40	
1030	HI TEMP SET-AE (AV TORD LAR)		B	760	09		B	100								40	
1031	HI TEMP SET-AF (AV TORD LAR)		B	770	09		B	100								40	
1032	HI TEMP SET-AG (AV TORD LAR)		B	780	09		B	100								40	
1033	HI TEMP SET-AH (AV TORD LAR)		B	790	09		B	100								40	
1034	HI TEMP SET-AI (AV TORD LAR)		B	800	09		B	100								40	
1035	HI TEMP SET-AJ (AV TORD LAR)		B	810	09		B	100								40	
1036	HI TEMP SET-AM (AV TORD LAR)		B	820	09		B	100								40	
1037	HI TEMP SET-AN (AV TORD LAR)		B	830	09		B	100								40	
1038	HI TEMP SET-AO (AV TORD LAR)		B	840	09		B	100								40	
1039	HI TEMP SET-AP (AV TORD LAR)		B	850	09		B	100								40	
1040	HI TEMP SET-AQ (AV TORD LAR)		B	860	09		B	100								40	
1041	HI TEMP SET-AR (AV TORD LAR)		B	870	09		B	100								40	
1042	HI TEMP SET-AS (AV TORD LAR)		B	880	09		B	100								40	
1043	HI TEMP SET-AT (AV TORD LAR)		B	890	09		B	100								40	
1044	HI TEMP SET-AU (AV TORD LAR)		B	900	09		B	100								40	
1045	HI TEMP SET-AV (AV TORD LAR)		B	910	09		B	100								40	
1046	HI TEMP SET-AW (AV TORD LAR)		B	920	09		B	100								40	
1047	HI TEMP SET-AX (AV TORD LAR)		B	930	09		B	100								40	
1048	HI TEMP SET-AY (AV TORD LAR)		B	940	09		B	100								40	
1049	HI TEMP SET-AZ (AV TORD LAR)		B	950	09		B	100								40	
1050	HI TEMP SET-BA (AV TORD LAR)		B	960	09		B	100								40	
1051	HI TEMP SET-BB (AV TORD LAR)		B	970	09		B	100								40	
1052	HI TEMP SET-BB (AV TORD LAR)		B	980	09		B	100								40	
1053	HI TEMP SET-BB (AV TORD LAR)		B	990	09		B	100								40	
1054	HI TEMP SET-BB (AV TORD LAR)		B	1000	09		B	100								40	
1055	HI TEMP SET-BB (AV TORD LAR)		B	1010	09		B	100								40	
1056	HI TEMP SET-BB (AV TORD LAR)		B	1020	09		B	100								40	
1057	HI TEMP SET-BB (AV TORD LAR)		B	1030	09		B	100								40	
1058	HI TEMP SET-BB (AV TORD LAR)		B	1040	09		B	100								40	
1059	HI TEMP SET-BB (AV TORD LAR)		B	1050	09		B	100								40	
1060	HI TEMP SET-BB (AV TORD LAR)		B	1060	09		B	100								40	
1061	HI TEMP SET-BB (AV TORD LAR)		B	1070	09		B	100								40	
1062	HI TEMP SET-BB (AV TORD LAR)		B	1080	09		B	100								40	
1063	HI TEMP SET-BB (AV TORD LAR)		B	1090	09		B	100								40	
1064	HI TEMP SET-BB (AV TORD LAR)		B	1100	09		B	100								40	
1065	HI TEMP SET-BB (AV TORD LAR)		B	1110	09		B	100								40	
1066	HI TEMP SET-BB (AV TORD LAR)		B	1120	09		B	100								40	
1067	HI TEMP SET-BB (AV TORD LAR)		B	1130	09		B	100								40	
1068	HI TEMP SET-BB (AV TORD LAR)		B	1140	09		B	100								40	
1069	HI TEMP SET-BB (AV TORD LAR)		B	1150	09		B	100								40	
1070	HI TEMP SET-BB (AV TORD LAR)		B	1160	09		B	100								40	
1071	HI TEMP SET-BB (AV TORD LAR)		B	1170	09		B	100								40	
1072	HI TEMP SET-BB (AV TORD LAR)		B	1180	09		B	100								40	
1073	HI TEMP SET-BB (AV TORD LAR)		B	1190	09		B	100								40	
1074	HI TEMP SET-BB (AV TORD LAR)		B	1200	09		B	100								40	
1075	HI TEMP SET-BB (AV TORD LAR)		B	1210	09		B	100								40	
1076	HI TEMP SET-BB (AV TORD LAR)		B	1220	09		B	100								40	
1077	HI TEMP SET-BB (AV TORD LAR)		B	1230	09		B	100								40	
1078	HI TEMP SET-BB (AV TORD LAR)		B	1240	09		B	100								40	
1079	HI TEMP SET-BB (AV TORD LAR)		B	1250	09		B	100								40	
1080	HI TEMP SET-BB (AV TORD LAR)		B	1260	09		B	100								40	
1081	HI TEMP SET-BB (AV TORD LAR)		B	1270	09		B	100								40	
1082	HI TEMP SET-BB (AV TORD LAR)		B	1280	09		B	100								40	
1083	HI TEMP SET-BB (AV TORD LAR)		B	1290	09		B	100								40	
1084	HI TEMP SET-BB (AV TORD LAR)		B	1300	09		B	100								40	
1085	HI TEMP SET-BB (AV TORD LAR)		B	1310	09		B	100								40	
1086	HI TEMP SET-BB (AV TORD LAR)		B	1320	09		B	100								40	
1087	HI TEMP SET-BB (AV TORD LAR)		B	1330	09		B	100								40	
1088	HI TEMP SET-BB (AV TORD LAR)		B	1340	09		B	100								40	
1089	HI TEMP SET-BB (AV TORD LAR)		B	1350	09		B	100								40	
1090	HI TEMP SET-BB (AV TORD LAR)		B	1360	09		B	100								40	
1091	HI TEMP SET-BB (AV TORD LAR)		B	1370	09		B	100								40	
1092	HI TEMP SET-BB (AV TORD LAR)		B	1380	09		B	100								40	
1093	HI TEMP SET-BB (AV TORD LAR)		B	1390	09		B	100								40	
1094	HI TEMP SET-BB (AV TORD LAR)		B	1400	09		B	100								40	
1095	HI TEMP SET-BB (AV TORD LAR)		B	1410	09		B	100								40	
1096	HI TEMP SET-BB (AV TORD LAR)		B	1420	09		B	100								40	
1097	HI TEMP SET-BB (AV TORD LAR)		B	1430	09		B	100								40	
1098	HI TEMP SET-BB (AV TORD LAR)		B	1440	09		B	100								40	
1099	HI TEMP SET-BB (AV TORD LAR)		B	1450	09		B	100								40	
1100	HI TEMP SET-BB (AV TORD LAR)		B	1460	09		B	100								40	
1101	HI TEMP SET-BB (AV TORD LAR)		B	1470	09		B	100								40	
1102	HI TEMP SET-BB (AV TORD LAR)		B	1480	09		B	100								40	
1103	HI TEMP SET-BB (AV TORD LAR)		B	1490	09		B	100								40	
1104	HI TEMP SET-BB (AV TORD LAR)		B	1500	09		B	100								40	
1105	HI TEMP SET-BB (AV TORD LAR)		B	1510	09		B	100								40	
1106	HI TEMP SET-BB (AV TORD LAR)		B	1520	09		B	100								40	
1107	HI TEMP SET-BB (AV TORD LAR)		B	1530	09		B	100								40	
1108	HI TEMP SET-BB (AV TORD LAR)		B	1540	09												

AUXILIARY SYSTEM 10

PAGE 1

10/29/79

INPUT SIGNAL LIST

SIGNAL SW ID CL SIGNAL NAME SIGNAL TRACE CD TYPE ADDR EQPI/CKI SWB TYPE ADDR EQPI/CKI SWB MODE RED PRY RATE WDS UPDATE DIG RSK STG ASM DSP

1980 AIR COND PLT 1 SUMMARY FAULT
1990 AIR COND PLT 2 SUMMARY FAULT

0 260 10 A 110
0 260 10 A 110

10
10

APPENDIX B: INPUT/OUTPUT MODULE DESCRIPTIVE DATA

10/29/79

IOM DESCRIPTIVE DATA

BOARD NUMBER	NAME	IOM TYPE	GENERIC TYPE	POWER WATTS	CABLE TYPE	# SLOTS PER IOM	# OF CHAN	SIGS/ CHAN	BITS/ CHAN	WDS/ CHAN	LEADS/ SIG
1	DISCRETE INPUT, SWITCH CLOSURE	A I	1	0.0		1	4	4	4	1	2
2	DISCRETE OUTPUT, ISOL..SWITCH CLOSURE, DC	A O	1	0.0		1	4	4	4	1	2
3	TRI-LEVEL DISCRETE INPUT	B I	1	0.0		1	4	2	4	1	2
4	TRI-LEVEL DISCRETE OUTPUT	B O	1	0.0		1	4	2	4	1	2
5	DC ANALOG INPUT, LOW RESOLUTION	C I	2	0.0		1	8	1	8	1	2
6	DC ANALOG OUTPUT, LOW RESOLUTION	C O	2	0.0		1	8	1	8	1	2
7	DISCRETE INPUT, ISOLATED, VOLTAGE LEVEL	D I	1	0.0		1	4	4	4	1	2
8	DISCRETE OUTPUT, VOLTAGE LEVEL	D O	1	0.0		1	4	4	4	1	2
9	DISCRETE OUTPUT, ISOL..SWITCH CLOSURE, AC	G O	1	0.0		1	4	4	4	1	2
10	SYNCHRO INPUT, 4 CHANNEL	J I	3	0.0		1	4	1	16	1	7
11	SYNCHRO OUTPUT, DUAL/SINGLE SPEED, 400 HZ	J O	3	0.0		2	4	1	16	1	7
12	SYNCHRO OUTPUT, TORQUE DEVICES, 60 HZ	L O	3	0.0		2	7	1	16	1	7
13	SYNCHRO OUTPUT 60 HZ	L O	3	0.0		2	1	1	16	1	7
14	SYNCHRO INPUT DUAL/SINGLE SPEED DUAL	M I	3	0.0		1	2	1	32	2	11
15	SYNCHRO OUTPUT DUAL/SINGLE SPEED DUAL	M O	3	0.0		2	2	1	32	2	11
16	PARALLEL CATA INPUT, NTDS SLOW	P I	4	0.0		1	1	1	16	0	73
17	PARALLEL CATA OUTPUT, NTDS SLOW	P O	4	0.0		1	1	1	16	0	73
18	DEMAND DIGITAL INPUT	T I	4	0.0		1	1	1	16	0	0
19	SWITCHING CONTROL MODULE	S O	1	0.0		1	16	1	1	1	2

**APPENDIX C: INPUT/OUTPUT MODULE AND
SIGNAL CODE LETTER ASSIGNMENT TABLE**

10/29/79

IOM SIGNAL CODE LETTER ASSIGNMENT TABLE

DESCRIPTION

SIGNAL TYPE CODE INPUT MODULE TYPE CODE OUTPUT MODULE TYPE CODE

A	A	A	DISCRETE, SWITCH CLOSURE
B	B	B	DISCRETE, TRI-LEVEL
C	C	C	DC ANALOG
D	D	D	DISCRETE, VOLTAGE LEVEL
G	G	G	DISCRETE OUTPUT
J	J	J	SYNCHRO, SINGLE SPEED
LT	LT	LT	SYNCHRO, POWER OUTPUT
L1	LT	LT	DUAL SPEED SYNCHRO 60 HZ, SPEED 1
L2	LT	LT	DUAL SPEED SYNCHRO 60 HZ, SPEED 2
M1	J	J	DUAL SPEED SYNCHRO, SPEED 1
M2	J	J	DUAL SPEED SYNCHRO, SPEED 2
P	P	P	PARALLEL DIGITAL, NTDS SLOW
T	T	T	DEMAND DIGITAL
SD	S	S	SWITCH CONTROL MODULE

APPENDIX D: COMPARTMENT ADDRESSES AND LOCATIONS

COMPARTMENT ADDRESSES/LOCATIONS

COMPARTMENT ADDRESS	COMPARTMENT NAME	LEVEL	FRAME FT	TRANSVERSE FT	LENGTH FT	WIDTH FT
10	SONAR EQUIPMENT ROOM NO. 1	1	030	10		
30	GUN NO. 1 FORWARD	1	085	0		
40	ASROC COOL/HEAT EQUIPMENT ROOM	1	133	0		
50	PASSAGEWAY	1	272	-3		
60	TORPEDO ROOM NO 2	1	395	-2		
70	SONAR EQUIPMENT NO 2	2	030	1		
80	CENTRAL CONTROL, AREA 1	2	272	0		
90	CENTRAL CONTROL, AREA 2	2	274	0		
100	CENTRAL CONTROL, AREA 3	2	275	0		
110	CENTRAL CONTROL, AREA 4	2	284	0		
120	MAIN ENGINE ROOM NO. 2	2	300	-4		
130	AFT SETTling TANK, AREA 1	2	323	2		
140	AFT SETTling TANK, AREA 2	2	323	4		
150	GUN NO. 2 AFT	2	465	0		
160	EMERGENCY GEN #2 SLUDB ROOM, A1	2	476	-4		
170	EMERGENCY GEN #2 SLUDB ROOM, A2	2	476	-04		
180	FORWARD IC ROOM NO. 1, AREA 1	3	130	0		
190	FORWARD IC ROOM NO. 1, AREA 2	3	130	6		
195	GENERAL STORE ROOM	3	276	5		
200	GYRO IC ROOM NO. 2, AREA 1	3	392	0		
210	GYRO IC ROOM NO. 2, AREA 2	3	395	-5		
220	SHIP'S SERVICE EMERGENCY GEN #3	3	428	-02		
230	STEERING GEAR ROOM	3	506	0		
235	SONAR EQUIPMENT ROOM NO. 4	4	036	1		
240	MAIN ENGINE ROOM NO. 1 FORWARD	5	174	0		
250	MAIN ENGINE ROOM NO. 1 AFT	5	195	0		
260	AUX. MACHINERY ROOM FORWARD	5	236	4		
270	AUX. MACHINERY ROOM AFT	5	260	1		
280	MAIN ENGINE ROOM NO. 2 FORWARD	5	300	1		
290	MAIN ENGINE ROOM NO. 2 AFT	5	340	1		
300	SEWAGE PLANT NO. 1	6	350	4		
310	DATA PROCESSING CENTER, AREA 1	01	142	1		
320	DATA PROCESSING CENTER, AREA 2	01	150	0		
321	DATA PROCESSING CENTER, AREA 2	01	150	-1		
330	DATA PROCESSING CENTER, AREA 3	01	150	1		
340	DATA PROCESSING CENTER, AREA 4	01	150	5		
350	DATA PROCESSING CENTER, AREA 5	01	155	10		
355	DATA PROCESSING CENTER, AREA 6	01	160	-9		

COMPARTMENT ADDRESS	COMPARTMENT NAME	LEVEL	FRAME FT	TRANSVERSE FT	LENGTH FT	WIDTH FT
360	ELEX COOLING WATER EQUIPLNT	01	210	1		
370	COMBAT INFORMATION CENTER, A 1	02	139	0		
380	COMBAT INFORMATION CENTER, A 2	02	145	5		
390	COMBAT INFORMATION CENTER, A 3	02	145	10		
400	COMBAT INFORMATION CENTER, A 4	02	150	2		
410	COMBAT INFORMATION CENTER, A 5	02	150	10		
420	COMBAT INFORMATION CENTER, A 6	02	152	0		
430	COMBAT INFORMATION CENTER, A 7	02	160	-15		
435	COMBAT INFORMATION CENTER, A 8	02	170	-2		
440	TACAN ROOM	02	220	1		
450	RADAR ROOM NO. 2	02	257	0		
460	PASSAGEWAY	02	262	0		
470	READY TORPEDO LOCKER	02	282	2		
480	HELO HANGAR	02	342	1		
490	PILOT HOUSE	03	140	0		
500	RADAR ROOM NO. 1, AREA 1	03	154	20		
510	RADAR ROOM NO. 1, AREA 2	03	160	10		
520	RADAR ROOM NO. 1, AREA 3	03	160	20		
530	PORT BRIDGE WING	03	170	20		
540	STBD BRIDGE WING	03	170	-20		
550	ACTIVE ECM ROOM NO. 2	03	220	-1		
560	TOT #2	03	326	13		

APPENDIX E: SIGNAL FLOW DIAGRAMS

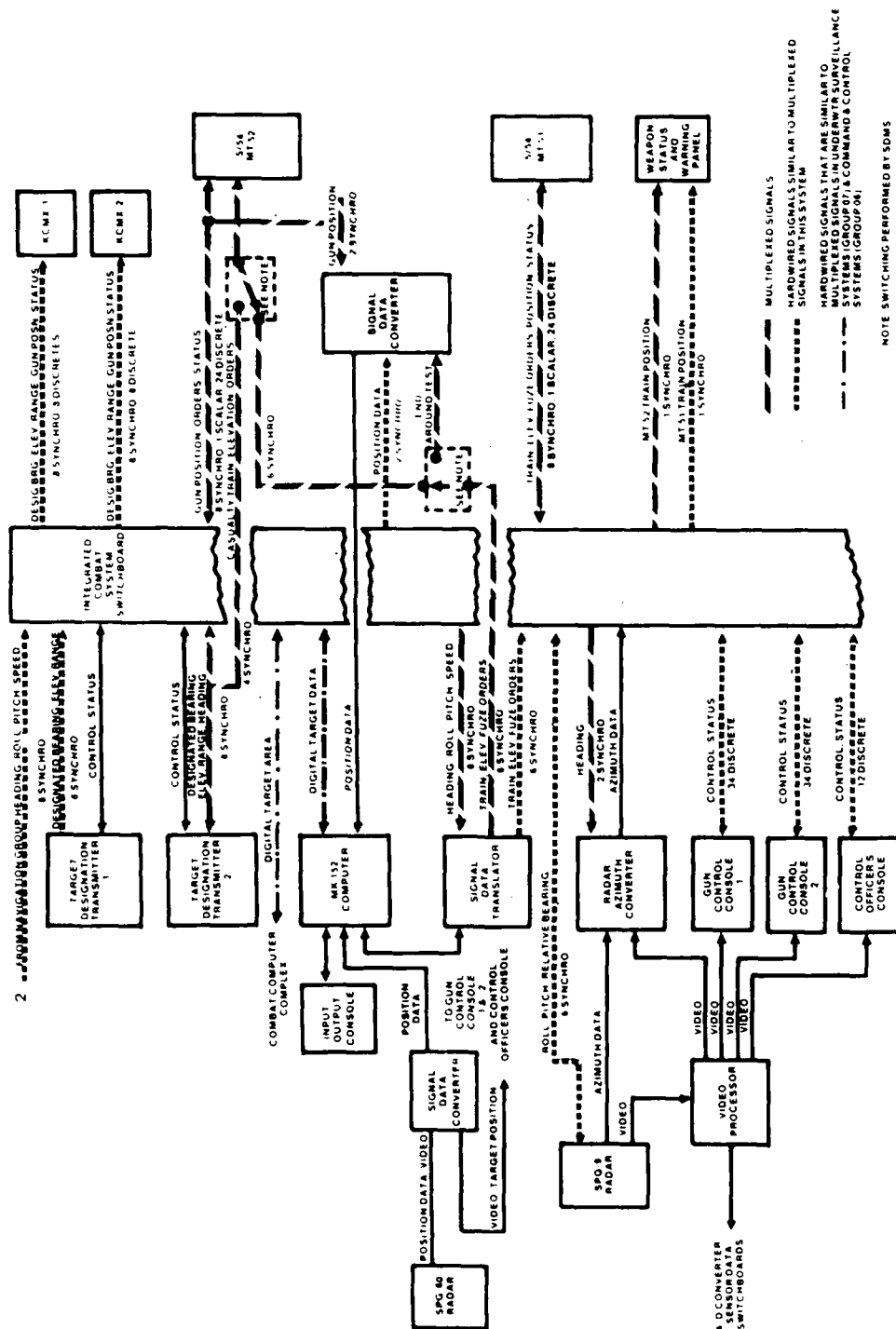
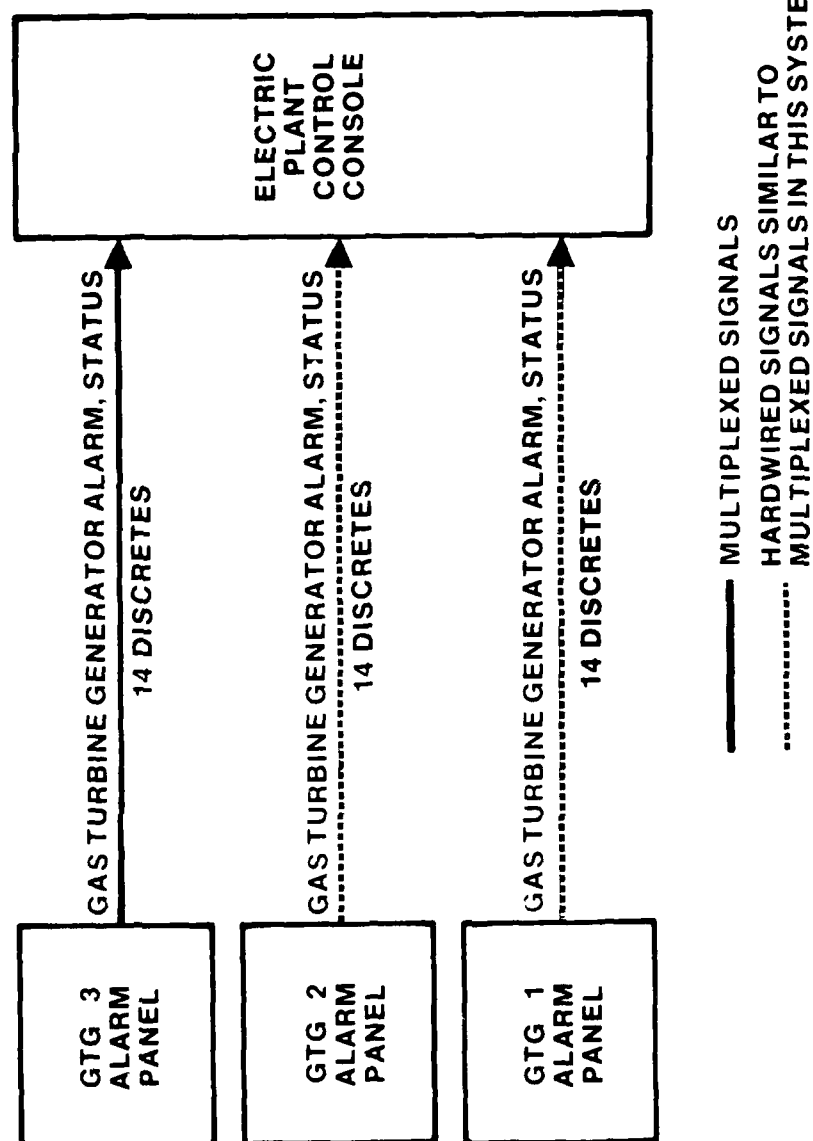


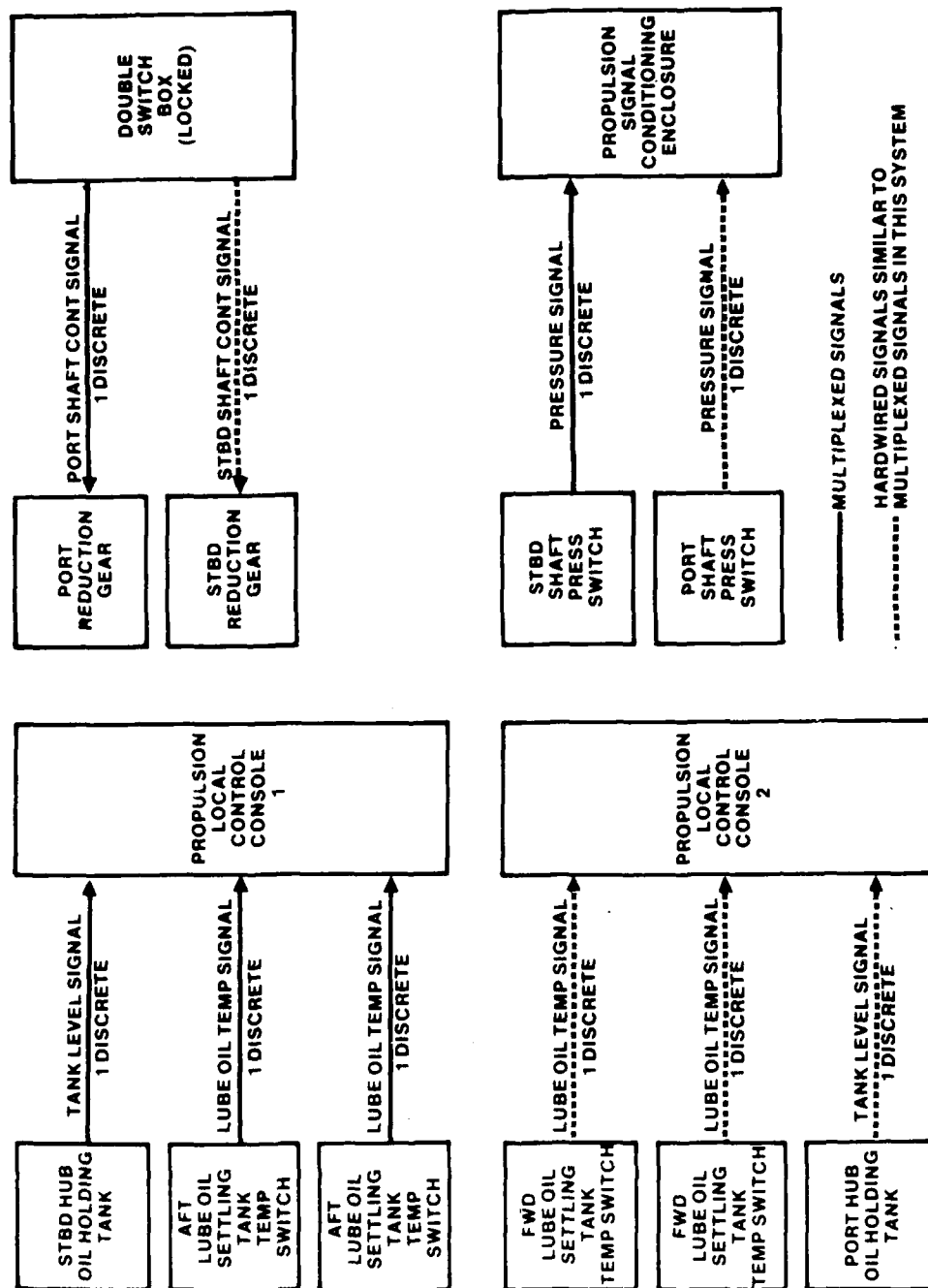
Figure E3. Gun weapon system group 02.

911592



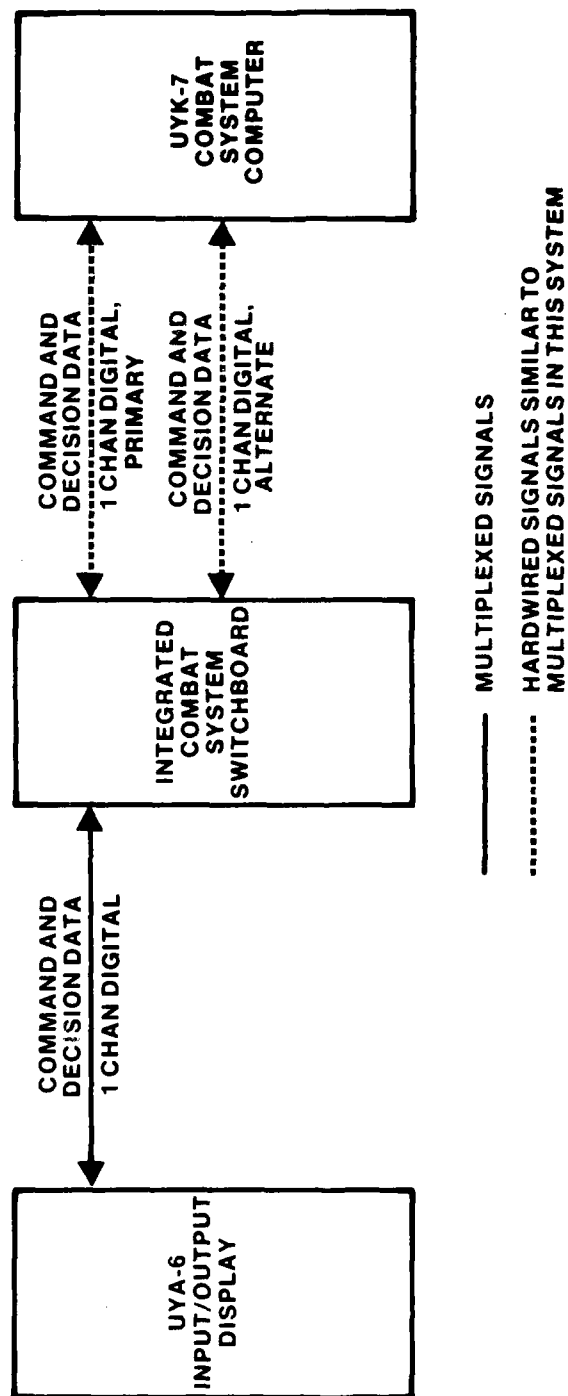
911595

Figure E5. Electric plant system group 04.



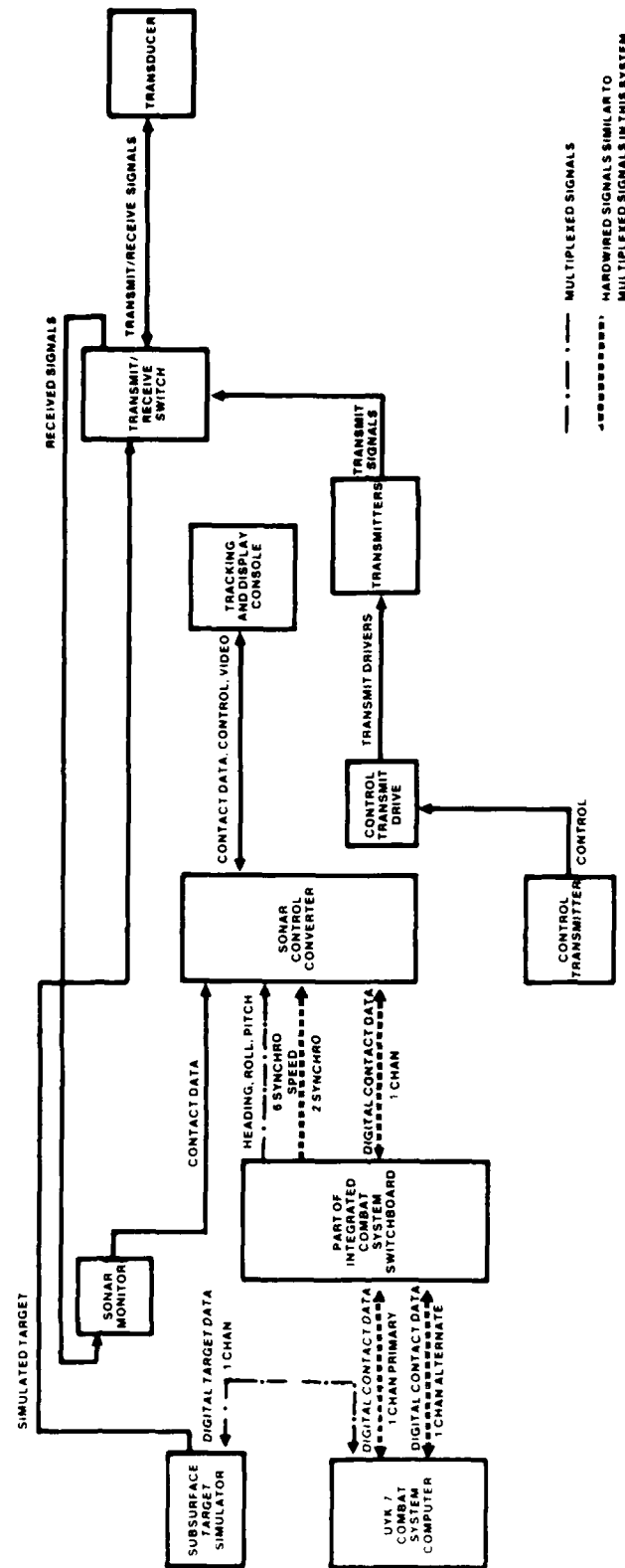
911599

Figure E6. Propulsion system group 05.



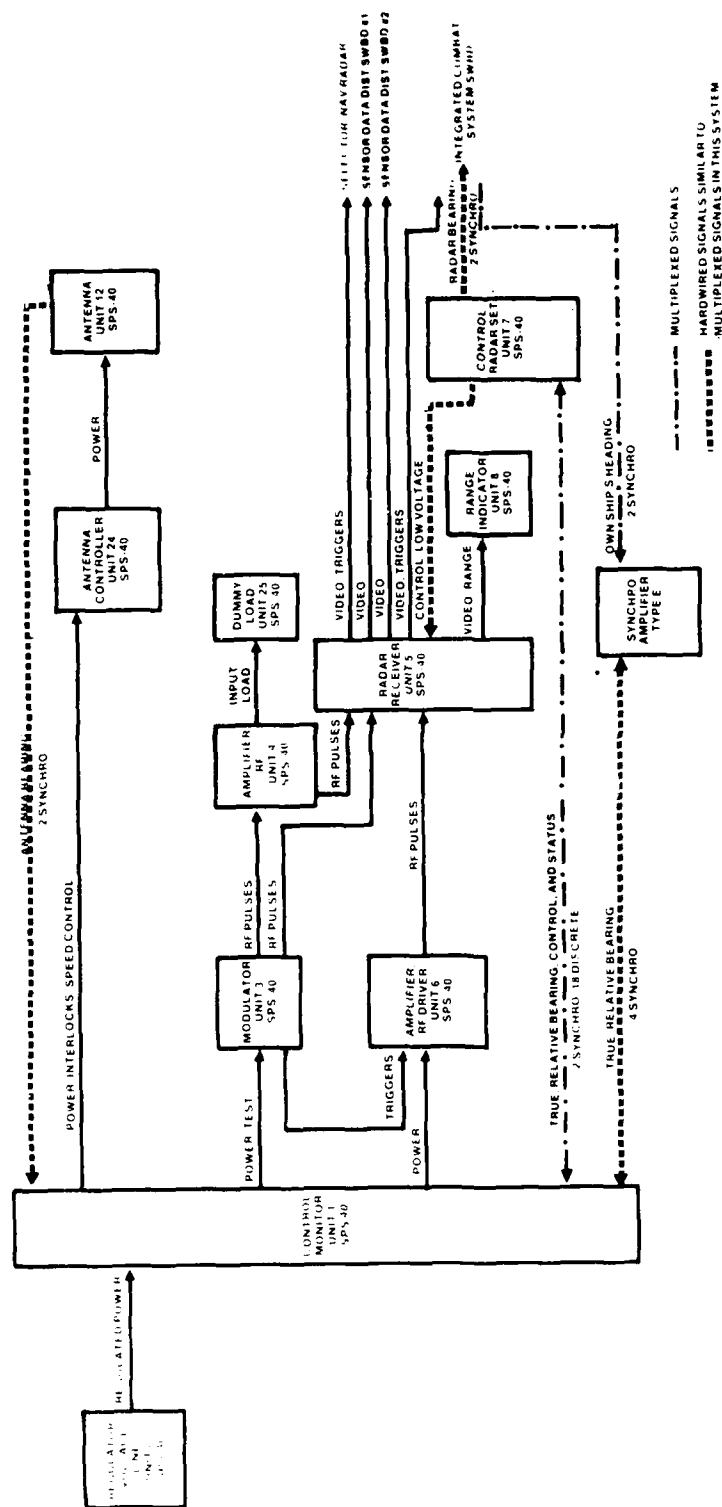
911597

Figure E7. Command and control system group 06.



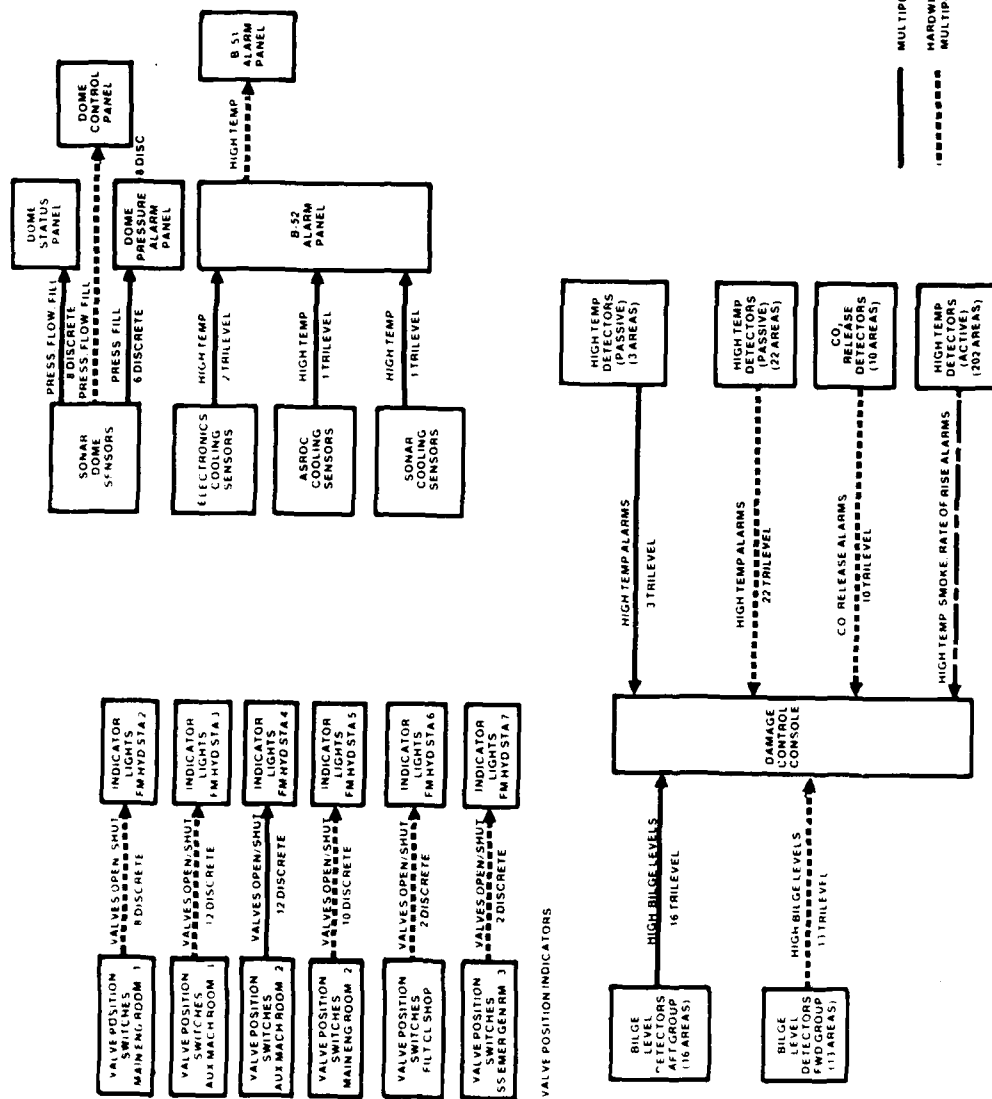
911593

Figure E8. Underwater surveillance system group 07.



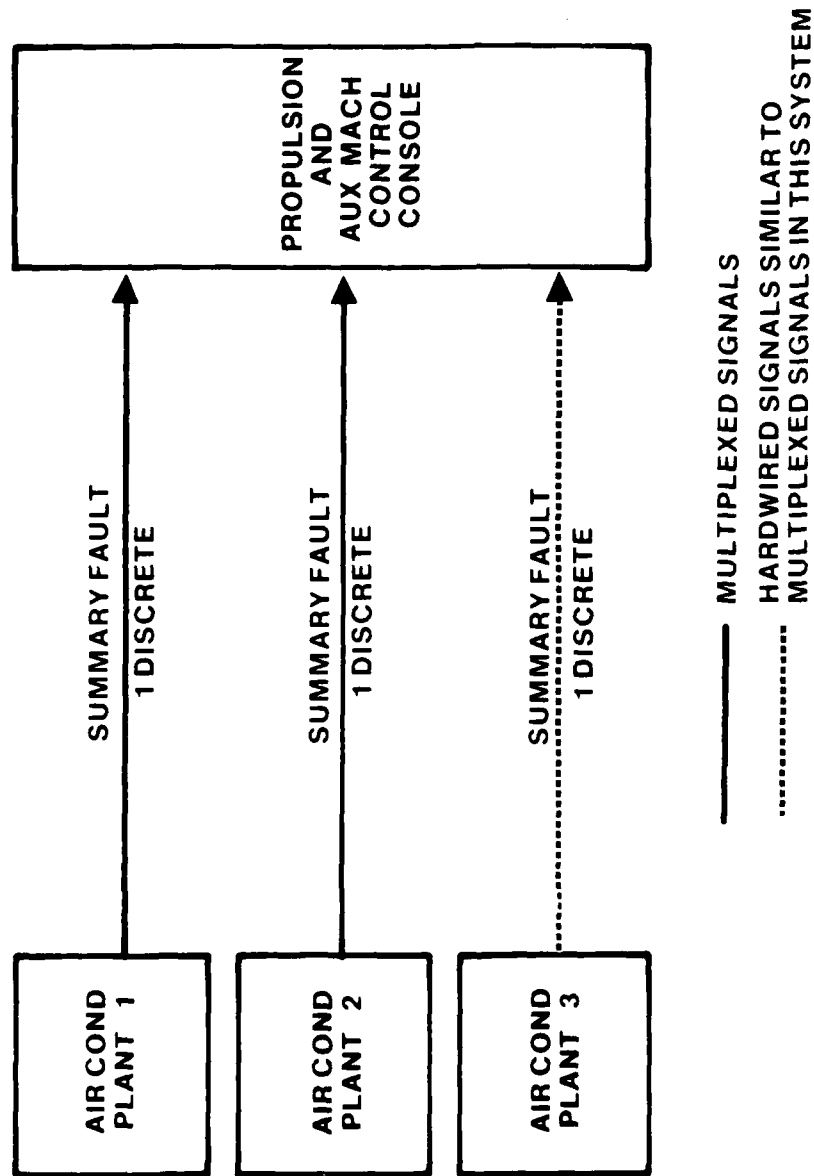
911590

Figure E9. Radar surveillance system group 08.



911591

Figure E10. Interior communication system group 09.



911596

Figure E11. Auxiliary system group 10.

APPENDIX F: SIGNAL SOURCES AND SINKS, WITH COMPARTMENT ADDRESSES

100

10/29/79

PAGE

[illegible]

SIGNAL SW	SIGNAL NAME	SIGNAL	TRACE CD	TYPE	ADDR	SOURCE	EQPT/CKT	SWB	TYPE	ADDR	SINK	EQPT/CKT	SWB	UPDATE	DIG	RSK	SIG
10	CL													MODE	RED	PRTY	WDS
0450		TOP TGT CONTROL CODE D		D	320	01			A	000						10	
0451		TOP TGT MODE INDICATION		D	060	01			A	320						10	
0452		ALARM READY		D	060	01			A	320						10	
0453		GYRO SETTING (SENSE) A		D	060	01			A	320						10	
0454		GYRO SETTING (SENSE) B		D	060	01			A	320						10	
0455		GYRO SETTING (SENSE) C		D	060	01			A	320						10	
0456		GYRO DEPTH SETTING (DEPTH IND) A		D	060	01			A	320						10	
0457		GYRO DEPTH SETTING (DEPTH IND) B		D	060	01			A	320						10	
0458		GYRO DEPTH SETTING (DEPTH IND) C		D	060	01			A	320						10	
0459		TUBE SELECTED A		D	060	01			A	320						10	
0460		TUBE SELECTED B		D	060	01			A	320						10	
0461		TUBE SELECTED C		D	060	01			A	320						10	
0462		TUBE STATUS 1		D	060	01			A	320						10	
0463		TUBE STATUS 2		D	060	01			A	320						10	
0464		TUBE STATUS 3		D	060	01			A	320						10	
0465		TUBE STATUS 4		D	060	01			A	320						10	
0466		TUBE STATUS 5		D	060	01			A	320						10	
0467		TUBE STATUS 6		D	060	01			A	320						10	
0468		SONAR TGT SIMULATOR INPUT		P	235	07			P	320						40	
0469		SONAR TGT SIMULATOR OUTPUT		P	320	07			P	235						40	
0470		10 DISPLAY GP AN/UYA-6 IN		P	435	06			P	355						40	
0471		10 DISPLAY GP AN/UYA-6 OUT		P	355	06			P	435						40	
0472		04H INDICATOR PILOT HOUSE		M1	190	03			M1	490						10	
0473		04H INDICATOR IC & GYRO RM 2		M2	190	03			M2	490						10	
0474		04H INDICATOR #1 CIC		M1	190	03			J	200						10	
0475		04H INDICATOR #2 CIC		M1	190	03			J	380						10	
0476		04H IND DATA PROCESSING CTR		M1	190	03			J	390						10	
0477		04H TO VERT PLOT BRD (CIC)		M1	190	03			J	330						10	
0478		04H TO SONAR CONTROL (CIC)		M1	190	03			LT	430						10	
0479		04H INDICATOR IC RM #1		J	210	03			J	410						10	
0480		04H TO AN/SQS-53 SONAR (ICSS)		M1	340	07			M1	180						10	
0481		04H TO AN/SQS-53 SONAR (ICSS)		M2	340	07			M2	010						10	
0482		04H IND STEERING GEAR RM		M1	210	03			M1	230						10	
0483		04H IND STEERING GEAR RM		M2	210	03			M2	230						10	
0484		04H IND SHIP CONTROL CONSOLE		M1	210	03			M1	490						10	
0485		04H IND SHIP CONTROL CONSOLE		M2	210	03			M2	490						10	
0486		04H TO RADAR AZIMUTH CONVERT		M1	330	02			M1	350						300	
0487		04H TO RADAR AZIMUTH CONVERT		M2	330	02			M2	350						300	
0488		04H TO TACAN		M1	330	03			L1	440						300	
0489		04H TO TACAN		M2	330	03			L2	440						300	
0490		04H TO SP5-40		M1	330	08			L1	500						10	
0491		04H TO SP5-40		M2	330	08			L2	500						10	
0492		04H TO TDT #2 (VIA ICSS)		M1	330	02			LT	560						10	
0493		04H TO SP5-53 SONAR (ICSS)		M1	330	07			M1	010						10	
0494		04H TO SP5-53 SONAR (ICSS)		M2	330	07			M2	010						10	
0495		04H TO TACAN		M1	330	03			M1	440						10	
0496		PITCH TO SP5-53 SONAR (ICSS)		M1	330	07			M1	010						10	
0497		PITCH TO SP5-53 SONAR (ICSS)		M2	330	07			M2	010						10	
0498		04H TO SOT MK1 MOD3		M1	330	02			M1	330						300	
0499		04H TO SOT MK1 MOD3		M2	330	02			M2	330						300	
0500		04H TO SOT MK1 MOD3		M1	330	02			M1	330						300	
0501		04H TO SOT MK1 MOD3		M2	330	02			M2	330						300	
0502		PITCH TO SOT MK1 MOD3		M1	330	02			M1	330						300	
0503		PITCH TO SOT MK1 MOD3		M2	330	02			M2	330						300	

INPUT SIGNAL LIST

10/29/79

PAGE 4

SIGNAL SW IO CL	SIGNAL NAME	SIGNAL		SOURCE		SINK		UPDATE		RSK SIG											
		TRACE	CD	TYPE	ADDR	EQPT/CKT	SW3	TYPE	ADDR	EQPT/CKT	SWB	MODE	RED	PRTY	RATE	WDS	UPDATE	DIG	WDS	ASM	DSP
1387	PRE-ATTENTION BY REMOTE			D	370	08		G	450						10						
1388	RECEIVED LED/LAMP POWER IND			D	370	08		G	450						10						
1390	STANDARD RECEIVER TEST			D	370	08		G	450						10						
1400	ANTENNA INTERLOCK OPERATE			D	450	08		G	370						10						
1410	ANTENNA OPERATE INDICATOR			D	370	08		G	450						10						
1420	LOW VOLT GAD INDICATOR			D	370	08		G	450						10						
1421	STANDARD/RADIATE			D	370	08		G	450						10						
1430	CABINET OVERHEAT ALARM IND			D	370	08		G	450						10						
1440	ARM PRESSURE ALARM INDICATOR			D	370	08		G	450						10						
1480	AWP SELECT ACC			D	320	02		A	030						10						
1490	AWP SELECT APP			D	320	02		A	030						10						
1500	AWP SELECT CUM			D	320	02		A	030						10						
1510	AWP SELECT CVT			D	320	02		A	030						10						
1520	AWP SELECT ILL			D	320	02		A	030						10						
1530	AWP SELECT PL			D	320	02		A	030						10						
1540	AWP SELECT RAP			D	320	02		A	030						10						
1550	AWP SELECT RED CHG			D	320	02		A	030						10						
1560	AWP SELECT STD CHG			D	320	02		A	030						10						
1570	AWP SELECT VT			D	320	02		A	030						10						
1580	AWP SELECT W			D	320	02		A	030						10						
1590	DIRECT CONTROL REQUEST			D	320	02		A	030						10						
1600	FUSE SETTER RUN			D	320	02		A	030						10						
1610	FUSE SETTER SAFE			D	320	02		A	030						10						
1620	LOAD OTHER SINGLE			D	320	02		A	030						10						
1630	LOAD OTHER CONTINUOUS			D	320	02		A	030						10						
1640	GUN IN STANDST			D	030	02		A	320						10						
1650	GUN FIRED			D	030	02		A	320						10						
1660	GUN READY TO FIRE			D	030	02		A	320						10						
1670	MOUNT SYNCH			D	030	02		A	320						10						
1680	FUSE SET ORDER			M1	320	02		M1	030						300						
1690	FUSE SET ORDER			M2	320	02		M2	030						300						
1700	GUN ELEVATION ORDER			M1	320	02		M1	030						300						
1710	GUN ELEVATION ORDER			M2	320	02		M2	030						300						
1720	ELEVATION RATE ORDER			C	320	02		C	030						300						
1730	GUN TRAIN ORDER			M1	320	02		M1	030						300						
1740	GUN TRAIN ORDER			M2	320	02		M2	030						300						
1750	TRAIN RATE ORDER			C	320	02		C	030						300						
1760	GUN ELEVATION POSITION			M1	030	02		M1	320						300						
1770	GUN ELEVATION POSITION			M2	030	02		M2	320						300						
1780	GUN TRAIN POSITION			M1	030	02		M1	320						300						
1790	GUN TRAIN POSITION			M2	030	02		M2	320						300						
1800	AWP SELECT ACC			D	320	02		A	150						10						
1810	AWP SELECT APP			D	320	02		A	150						10						
1820	AWP SELECT CUM			D	320	02		A	150						10						
1830	AWP SELECT CVT			D	320	02		A	150						10						
1840	AWP SELECT ILL			D	320	02		A	150						10						
1850	AWP SELECT PL			D	320	02		A	150						10						
1860	AWP SELECT RAP			D	320	02		A	150						10						
1870	AWP SELECT RED CHG			D	320	02		A	150						10						
1880	AWP SELECT STD CHG			D	320	02		A	150						10						
1890	AWP SELECT VT			D	320	02		A	150						10						
1900	AWP SELECT W			D	320	02		A	150						10						
1910	DIRECT CONTROL REQUEST			D	320	02		A	150						10						
1920	FUSE SETTER RUN			D	320	02		A	150						10						
1930	FUSE SETTER SAFE			D	320	02		A	150						10						

INPUT SIGNAL LIST

SIGNAL NO	SIGNAL NAME	SIGNAL TRACE	CO	TYPE	SOURCE		SINK		UPDATE MODE	RED PRTY	RATE	DIG WDS	RSK	SIG
					ADCR	EQPT/CKT	SWB	TYPE	ADCR	EQPT/CKT	SWB			
1875	USER SINGLE	MT52		D	320	02		A	150			10		
1876	EDUCATOR CONTINUOUS	MT52		D	320	02		A	150			10		
1880	GUN FIRED	MT52		D	150	02		A	320			10		
1890	GUN IN STANDBY	MT52		D	150	02		A	320			10		
1900	GUN READY TO FIRE	MT52		D	150	02		A	320			10		
1901	EDUCATOR SYNC	MT52		D	150	02		A	320			10		
1911	GUN ELEVATION ORDER	MT52		M1	321	02		M1	150			300		
1912	GUN ELEVATION ORDER	MT52		M2	321	02		M2	150			300		
1913	GUN ELEVATION ORDER	MT52		M1	560	02		M1	150			300		
1914	GUN ELEVATION ORDER	MT52		M2	560	02		M2	150			300		
1915	GUN ELEVATION ORDER	MT52		M1	560	02		M1	340			300		
1916	GUN ELEVATION ORDER	MT52		M2	560	02		M2	340			300		
1920	ELEVATION RATE ORDER	MT52		C	321	02		C	150			300		
1931	GUN TRAIN ORDER	MT52		M1	321	02		M1	150			300		
1932	GUN TRAIN ORDER	MT52		M2	321	02		M2	150			300		
1933	GUN TRAIN ORDER	MT52		M1	560	02		M1	150			300		
1934	GUN TRAIN ORDER	MT52		M2	560	02		M2	150			300		
1935	GUN TRAIN ORDER	MT52		M1	560	02		M1	340			300		
1936	GUN TRAIN ORDER	MT52		M2	560	02		M2	340			300		
1941	GUN ELEVATION POSITION	MT52		M1	321	02		M1	321			300		
1942	GUN ELEVATION POSITION	MT52		M2	321	02		M2	321			300		
1943	GUN ELEVATION POSITION	MT52		M1	150	02		M1	321			300		
1944	GUN ELEVATION POSITION	MT52		M2	150	02		M2	321			300		
1945	GUN ELEVATION POSITION	MT52		M1	150	02		M1	321			300		
1946	GUN ELEVATION POSITION	MT52		M2	150	02		M2	321			300		
1951	GUN TRAIN POSITION	MT52		M1	321	02		M1	321			300		
1952	GUN TRAIN POSITION	MT52		M2	321	02		M2	321			300		
1953	GUN TRAIN POSITION	MT52		M1	150	02		M1	340			300		
1954	GUN TRAIN POSITION	MT52		M2	150	02		M2	340			300		
1955	GUN TRAIN POSITION	MT52		M1	150	02		M1	490			300		
1960	TRAIN RATE ORDER	MT52		C	321	02		C	150			300		
1970	FUZE SET ORDER	MT52		M1	321	02		M1	150			300		
1971	FUZE SET ORDER	MT52		M2	321	02		M2	150			300		
1972	FUZE SET ORDER	MT52		M1	560	02		M1	340			300		
1973	FUZE SET ORDER	MT52		M2	560	02		M2	340			300		
1975	TOT-2 DESIGNATED RANGE			D	260	10		A	110			10		
1976	TOT-2 DESIGNATED RANGE			D	260	10		A	110			10		
1980	AIR COND PLT 1 SUMMARY FAULT			D	260	10		A	110			10		
1990	AIR COND PLT 2 SUMMARY FAULT			D	260	10		A	110			10		
2000	EDUCATOR SUPPLY VALVE OPEN			D	270	09		G	050			10		
2010	EDUCATOR SUPPLY VALVE CLOSED			D	270	09		G	050			10		
2020	EDUCATOR SUCTION VALVE OPEN			D	270	09		G	050			10		
2030	EDUCATOR SUCTION VALVE CLOSED			D	270	09		G	050			10		
2040	EDUCATOR DISCHARGE VALVE OPEN			D	270	09		G	050			10		
2050	EDUCATOR DISCHARGE VALVE CLOSED			D	270	09		G	050			10		
2060	SEAWATER PUMP 2 SUC VAL OPEN			D	270	09		G	050			10		
2070	SEAWATER PUMP 2 SUC VAL CLSD			D	270	09		G	050			10		
2080	SEAWATER ISOLATION VAL OPEN			D	270	09		G	050			10		
2090	SEAWATER ISOLATION VAL CLSD			D	270	09		G	050			10		
2100	BHD 300 ISOLATION VAL OPEN			D	270	09		G	050			10		
2110	BHD 300 ISOLATION VAL CLSD			D	270	09		G	050			10		
2121	MT52 SELECT MK-86			A	370	02		SD	050			10		
2122	MT52 SELECT TOT #2			A	370	02		SD	050			10		
2131	POSITION SELECT SDC			A	370	02		SD	050			10		
2132	POSITION SELECT EAT			A	370	02		SD	050			10		

APPENDIX G: ZONE BOUNDARIES

ZONE BOUNDARIES

10/29/79

ZONE	ALT	DECK	FORWARD FRAME	AFTER FRAME	STARBOARD LIMIT	PORT LIMIT	DESCRIPTION
11	12	3	127	138	-14	10	IC ROOM NO 1
11	12	5	138	154	-8	8	PUMP ROOM NO 1
11	12	5	174	204	-10	10	MAIN ENGINE ROOM #1
11	12	5	220	260	-10	10	AUX MACHINE ROOM NO1
21	22	3	382	396	-11	11	GYRO IC ROOM NO2
22	23	2	400	470	-5	5	GUN NO 2 AFT
22	23	2	464	480	-5	5	SS/EMERG GEN 3 S
22	23	3	506	530	-15	15	STEERING GEAR ROOM
23	24	1	366	420	-3	0	TORPEDO ROOM NO 1
23	24	3	426	435	-5	5	SS/EMERG GEN 3 R
31	32	03	140	154	-19	19	PILOT HOUSE
31	32	03	143	177	-26	-15	STBD BRIDGE WING
31	32	03	154	174	-10	4	CHART ROOM
31	32	03	177	189	-20	-8	CO SEA CABIN
31	32	03	177	177	15	26	PORT BRIDGE WING
31	32	03	154	177	0	16	RADAR ROOM NO 1
52	53	01	177	177	-9	-1	DATA PROCESS CENTER
41	42	01	138	177	-9	0	DATA PROCESS CENTER
41	42	1	130	140	-12	0	ASROC COOLHEATEQUIP
42	43	01	138	177	1	20	DATA PROCESS CENTER
42	43	1	13	140	1	20	ASROC COOLHEATEQUIP
51	52	1	80	90	-5	5	GUN NO 1 FORWARD
51	52	1	28	58	-10	10	SONAR EQUIP ROOM NO1
51	52	2	26	58	-8	8	SONAR EQUIP ROOM NO3
51	52	4	28	58	-8	8	SONAR EQUIP ROOM NO3
51	52	1	94	106	-2	0	ASROC LAUNCH CON
61	61	02	138	177	-24	24	COMBAT INFORM CENTER
71	71	01	200	220	-20	2	ELEX COOLWATER EQUIP
71	71	03	212	228	-2	0	ACTIVE ECM ROOM 2
71	71	02	210	230	0	6	TACAN
71	71	02	252	290	-1	0	RADAR ROOM NO 2
71	71	02	260	276	-12	0	AVIATION STUREROOM
71	71	02	260	293	6	12	PASSAGEWAY
71	71	02	267	278	-1	6	HELQ DETACH OFFICE
71	71	02	276	284	-12	-4	AVIONICS SHOP
71	71	02	276	292	-12	4	HELQ REPAIR SHOP
71	71	02	281	293	2	8	RS TORPEDJ ROOM
71	71	02	293	300	10	20	FAN ROOM
71	71	02	293	300	-6	21	HELQ HANGER
71	71	02	324	332	-20	-8	HELQ CRASH RESCUE RM
71	71	03	292	300	0	6	AFFF ROOM
71	71	03	292	300	-15	-5	FUT ASWD LAUNCH RM
71	71	03	324	336	-18	-6	FIRE CON SYS EQUIPRM
71	71	03	293	300	10	20	FAN ROOM
71	71	03	332	348	14	20	LANDG CONT STA
71	71	03	320	330	10	14	TOT #2 A
81	82	1	270	274	-5	5	PASSAGEWAY
81	82	01	270	316	-12	8	WARDROOM MESS LOUNGE
81	82	01	293	300	-22	-12	FAN ROOM
81	82	2	272	300	-10	10	CENTRAL CONTROL STA
82	83	2	322	330	-5	5	AFT SETTLING TK
82	83	3	276	276	-5	5	GENERAL STORE ROOM
82	83	5	300	345	-5	5	PROF LOC CONT CO
82	83	6	305	350	-5	5	SEWAGE PLANT NO 2

**APPENDIX H: REMOTE MULTIPLEXER AND
INPUT/OUTPUT UNIT LOCATION SUMMARY**

R#	IOU	DECK	FRAME	TRANSVERSE
1	11	3	127	6
		3	138	-6
2	21	3	383	-9
	22	3	383	-9
	23	2	482	0
		3	382	-1
3	31	03	154	-14
		03	154	-14
4	41	01	156	0
	42	01	156	0
5	51	01	156	0
	52	1	58	1
		01	156	0
6	61	02	174	-2
		02	174	-2
7	71	01	205	1
		01	205	1
8	81	2	300	0
	82	2	300	0
		5	308	27
99	991	1	0	0
	992	1	0	0
		1	0	0

**APPENDIX I: SDMS TRANSMISSION CHARACTERISTICS OF
EACH CANDIDATE SIGNAL**

10/29/79

SIGNAL LIST/DECK, FRAMIE & INTRANSVERSE LOCATIONS

SIGNAL ID	SIGNAL NAME	INPUT		UPDATE		P		R		--SOURCE LOCATION--		--SINK LOCATION--		NO. UPDATES	
		TYPE	TYPE	MODE	MODE	DECK	FRAME	DECK	FRAME	TRANSV	TRANSV	WDS	PER SEC	VITAL	
00010	TANK TEMPERATURE SW 1	D	A	P	1	2	323	2	5	340	1	0	10		
00020	TANK TEMPERATURE SW 2	D	A	P	1	2	323	4	5	340	1	0	10		
00030	SEAWATER PLANT PRESSURE SWITCH	D	A	P	1	6	350	0	5	195	0	0	10		
00040	SWITCH PORT REDUCTION GEAR A	D	A	P	1	2	272	0	5	174	0	0	10		
00050	SWITCH PORT REDUCTION GEAR B	D	A	P	1	2	272	0	5	174	0	0	10		
00060	OIL LEVEL SWITCH STBD HUB	D	A	P	1	2	300	-4	5	300	1	0	10		
00070	TURBINE INLET TEMP HI ALARM	D	A	P	1	3	428	-2	2	274	0	0	10		
00080	LUBO FILTER DELTA P HIGH	D	A	P	1	3	428	-2	2	274	0	0	10		
00090	FUEL OIL FILTER DELTA P HIGH	D	A	P	1	3	428	-2	2	274	0	0	10		
00100	LUBO TEMPERATURE HIGH ALARM	D	A	P	1	3	428	-2	2	274	0	0	10		
00110	ENC ENGINE TEMP HIGH ALARM	D	A	P	1	3	428	-2	2	274	0	0	10		
00120	GENERATOR STATOR TEMP HIGH	D	A	P	1	3	428	-2	2	274	0	0	10		
00130	AIR TEMPERATURE HIGH ALARM	D	A	P	1	3	428	-2	2	274	0	0	10		
00140	REAR BEARING TEMP HIGH ALARM	D	A	P	1	3	428	-2	2	274	0	0	10		
00150	FRT BEARING TEMP HIGH ALARM	D	A	P	1	3	428	-2	2	274	0	0	10		
00160	LUBO PRESSURE LOW ALARM	D	A	P	1	3	428	-2	2	274	0	0	10		
00170	HEATER ON, GEN #3 NON/IND	D	A	P	1	2	476	-4	2	274	0	0	10		
00180	GEN OPEN (TRIP'D) STATUS SIG	D	A	P	1	2	476	-4	2	274	0	0	10		
00190	GEN CLOSED STATUS SIGNAL	D	A	P	1	2	476	-4	2	274	0	0	10		
00200	GEN LOW AIR WAY START COMMAND	D	A	P	1	2	274	0	2	476	-4	0	10		
00210	GYRO DRIVE ORDER A	D	A	P	1	01	150	0	1	395	-2	0	10		
00220	GYRO DRIVE ORDER B	D	A	P	1	01	150	0	1	395	-2	0	10		
00230	GYRO DRIVE ORDER C	D	A	P	1	01	150	0	1	395	-2	0	10		
00240	MODE SELECT ORDER A	D	A	P	1	01	150	0	1	395	-2	0	10		
00250	MODE SELECT ORDER B	D	A	P	1	01	150	0	1	395	-2	0	10		
00260	MODE SELECT ORDER C	D	A	P	1	01	150	0	1	395	-2	0	10		
00270	SEARCH JEPH ORDER A	D	A	P	1	01	150	0	1	395	-2	0	10		
00280	SEARCH JEPH ORDER B	D	A	P	1	01	150	0	1	395	-2	0	10		
00290	SEARCH JEPH ORDER C	D	A	P	1	01	150	0	1	395	-2	0	10		
00300	TUBE SELECT A	D	A	P	1	01	150	0	1	395	-2	0	10		
00310	TUBE SELECT B	D	A	P	1	01	150	0	1	395	-2	0	10		
00320	TUBE SELECT C	D	A	P	1	01	150	0	1	395	-2	0	10		
00330	TUBE SELECT D	D	A	P	1	01	150	0	1	395	-2	0	10		
00340	WEAPON ASSIGNED A	D	A	P	1	01	150	0	1	395	-2	0	10		
00350	WEAPON ASSIGNED B	D	A	P	1	01	150	0	1	395	-2	0	10		

10/29/79

SIGNAL ID	SIGNAL NAME	INPUT		UPDATE MODE	SOURCE LOCATION		SINK LOCATION		NO. UPDATES						
		TYPE	TYPE		R	DECK	FRAME	TRANSV	DECK	FRAME	TRANSV	WDS	PER	SEC	VITAL
0370	WEAPON ASSIGNED C	D	A	P	1	01	150	0	1	395	-2	0	0	10	
0371	SECTOR CLEAR STARBOARD	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0372	SECTOR CLEAR PORT	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0380	FIRE ORDER	D	A	P	1	01	150	0	1	395	-2	0	0	10	
0390	ILLUMINATE ENABLE	D	A	P	1	01	150	0	1	395	-2	0	0	10	
0400	LAUNCHER MISFIRE	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0410	LAUNCHER READY	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0420	FIRING SECTOR CLEAR	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0430	STANDBY ORDER	D	A	P	1	01	150	0	1	395	-2	0	0	10	
0440	TORPEDO AWAY	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0450	TORPEDO SYSTEM MISFIRE	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0460	TORPEDO SYSTEM READY	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0470	TSP IN REMOTE	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0480	TSP MISFIRE	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0490	TSP OPERABILITY TEST IND	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0500	TSP OVERHEAT WARNING	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0510	TSP PRETEST CONTROL	D	A	P	1	01	150	0	1	395	-2	0	0	10	
0520	TSP TEST CONTROL CODE A	D	A	P	1	01	150	0	1	395	-2	0	0	10	
0530	TSP TEST CONTROL CODE B	D	A	P	1	01	150	0	1	395	-2	0	0	10	
0540	TSP TEST CONTROL CODE C	D	A	P	1	01	150	0	1	395	-2	0	0	10	
0550	TSP TEST CONTROL CODE D	D	A	P	1	01	150	0	1	395	-2	0	0	10	
0560	TSP TEST MODE INDICATION	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0561	WEAPON READY	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0570	GYRO SETTING (SENSE) A	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0580	GYRO SETTING (SENSE) B	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0590	GYRO SETTING (SENSE) C	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0600	GYRO DEPTH SETTING (DEPTH IND) A	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0610	GYRO DEPTH SETTING (DEPTH IND) B	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0620	GYRO DEPTH SETTING (DEPTH IND) C	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0630	TUBE SELECTED A	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0640	TUBE SELECTED B	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0650	TUBE SELECTED C	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0660	TUBE STATUS 1	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0670	TUBE STATUS 2	D	A	P	1	1	395	-2	01	150	0	0	0	10	
0680	TUBE STATUS 3	D	A	P	1	1	395	-2	01	150	0	0	0	10	

10/29/79

SIGNAL ID	SIGNAL NAME	INPUT		OUTPUT		UPDATE MODE	P-SOURCE LOCATION		SINK LOCATION		NO. UPDATES		VITAL
		TYPE	TYPE	R	DECK		FRAME	TRANSV	DECK	FRAME	TRANSV	WDS	
0690	TUBE STATUS 4	D	A	1	1	P	1	395	-2	01	150	0	10
0700	TUBE STATUS 5	D	A	1	1	P	1	395	-2	01	150	0	10
0710	TUBE STATUS 6	D	A	1	1	P	1	395	-2	01	150	0	10
0720	SONAR TGT SIMULATOR INPUT	P	P	1	4	P	1	36	1	01	150	0	50
0730	SUNAR TGT SIMULATOR OUTPUT	P	P	1	01	P	1	150	0	4	36	1	50
0740	1-D DISPLAY GP AN/UUA-6 IN	P	P	1	02	P	1	170	-2	01	160	-9	50
0750	1-D DISPLAY GP AN/UUA-6 OUT	P	P	1	01	P	1	160	-9	02	170	-2	50
0761A1	DSH INDICATOR PILOT HOUSE	M1	M1	1	3	P	1	130	6	03	140	0	10
0762A2	DSH INDICATOR PILOT HOUSE	M2	M2	1	3	P	1	130	6	03	140	0	10
0771A1	DSH INDICATOR IC & GYRO RM 2	M1	M1	1	3	P	1	130	6	3	392	0	10
0781A1	DSH INDICATOR #1 CIC	M1	M1	1	3	P	1	130	6	02	145	5	10
0791A1	DSH INDICATOR #2 CIC	M1	M1	1	3	P	1	130	6	02	145	10	10
0801A1	DSH IND DATA PROCESSING CTR	M1	M1	1	3	P	1	130	6	01	150	1	10
0811A1	DSH TO VERT PLOT BRD (CIC)	M1	M1	1	3	P	1	130	6	02	160	-15	10
0821A1	DSH TO SONAR CONTROL (CIC)	M1	M1	1	3	P	1	130	6	02	150	10	10
0830	DSH INDICATOR IC RM #1	J	J	1	3	P	1	395	-5	3	130	0	10
0840	DSH TO AN/SQS-53 SONAR (ICSS)	M1	M1	1	01	P	1	150	5	1	30	10	10
0850	DSH TO AN/SQS-53 SONAR (ICSS)	M2	M2	1	01	P	1	150	5	1	30	10	10
0861B1	DSH IND STEERING GEAR RM	M1	M1	1	3	P	1	395	-5	3	506	0	10
0871B2	DSH IND STEERING GEAR RM	M2	M2	1	3	P	1	395	-5	3	506	0	10
0881B1	DSH IND SHIP CONTROL CONSOLE	M1	M1	1	3	P	1	395	-5	03	140	0	10
0892B2	DSH IND SHIP CONTROL CONSOLE	M2	M2	1	3	P	1	395	-5	03	140	0	10
0901C1	DSH TO RADAR AZIMUTH CONVERT	M1	M1	1	01	P	1	150	1	01	155	10	300
0912C2	DSH TO RADAR AZIMUTH CONVERT	M2	M2	1	01	P	1	150	1	01	155	10	300
0921C1	DSH TO TACAN	M1	M1	1	01	P	1	150	1	02	220	1	300
0932C2	DSH TO TACAN	M2	M2	1	01	P	1	150	1	02	220	1	300
0941C1	DSH TO SPS-40	M1	M1	1	01	P	1	150	1	03	154	20	10
0952C2	DSH TO SPS-40	M2	M2	1	01	P	1	150	1	03	154	20	10
0961D1	DSH TO TDT #2 (VIA ICSS)	M1	M1	1	01	P	1	150	1	03	326	13	10
0972D2	ROLL TO SQS-53 SONAR (ICSS)	M2	M2	1	01	P	1	150	1	1	30	10	10
0981D1	ROLL TO SQS-53 SONAR (ICSS)	M1	M1	1	01	P	1	150	1	1	30	10	10
0992D2	ROLL TO SQS-53 SONAR (ICSS)	M2	M2	1	01	P	1	150	1	1	30	10	10
1001D1	ROLL TO TACAN	M1	M1	1	01	P	1	150	1	02	220	1	10
1012D2	ROLL TO TACAN	M2	M2	1	01	P	1	150	1	02	220	1	10
1021D1	PITCH TO SQS-53 SONAR (ICSS)	M1	M1	1	01	P	1	150	1	1	30	10	10
1032D2	PITCH TO SQS-53 SONAR (ICSS)	M2	M2	1	01	P	1	150	1	1	30	10	10
1041D1	DSH TO SDT M41 H003	M1	M1	1	01	P	1	150	1	01	150	1	300

10/29/79

SIGNAL ID	SIGNAL NAME	INPUT		OUTPUT TYPE	UPDATE MODE	P		R		--SOURCE LOCATION--		--SINK LOCATION--		NO. UPDATES		VITAL
		TYPE	TYPE			DECK	FRAME	DECK	FRAME	WDS	PER SEC					
0982	OSH TO SOT MK1 MOD3	M2		M2	P	1	01	150	1	01	150	1	1	300		
0991	ROLL TO SOT MK1 MOD3	M1		M1	P	1	01	150	1	01	150	1	1	300		
0992	ROLL TO SOT MK1 MOD3	M2		M2	P	1	01	150	1	01	150	1	1	300		
1001	PITCH TO SOT MK1 MOD3	M1		M1	P	1	01	150	1	01	150	1	1	300		
1002	PITCH TO SOT MK1 MOD3	M2		M2	P	1	01	150	1	01	150	1	1	300		
1011	OWN SHIP SPEED TO SOTMK1MOD3	M1		M1	P	1	01	150	1	01	150	1	1	300		
1012	OWN SHIP SPEED TO SOTMK1MOD3	M2		M2	P	1	01	150	1	01	150	1	1	300		
1020	TACAN EMERGENCY NORMAL	A		D	P	1	02	152	0	02	220	1	0	10		
1030	TACAN EMERGENCY SHUTDOWN	A		D	P	1	02	152	0	02	220	1	0	10		
1040	TACAN EMERG SHUTON INDICATOR	D		A	P	1	02	220	1	02	152	0	0	10		
1050	TRANSPONDER ON INDICATOR	D		A	P	1	02	220	1	02	152	0	0	10		
1060	TRANSPONDER STANDBY	D		A	P	1	02	220	1	02	152	0	0	10		
1070	MONITOR ALARM	D		D	P	1	02	220	1	02	152	0	0	10		
1080	SYSTEM NORMAL	D		D	P	1	02	220	1	02	152	0	0	10		
1090	HI TEMP DET-B (AV STORE RM)	B		B	P	1	02	262	0	2	275	0	0	40		
1091	HI TEMP DET-A (ROY TORP LKR)	B		B	P	1	02	282	2	2	275	0	0	40		
1092	HI TEMP DET-C (HELO HANGER)	B		B	P	1	02	342	1	2	275	0	0	40		
1100	BILGE LEVEL 6-338-2-F	B		B	P	1	3	276	5	2	275	0	0	40		
1101	BILGE LEVEL 4-464-0-T	B		B	P	1	3	276	5	2	275	0	0	40		
1102	BILGE LEVEL 6-464-3-Q	B		B	P	1	3	276	5	2	275	0	0	40		
1103	BILGE LEVEL 6-362-4-V	B		B	P	1	3	276	5	2	275	0	0	40		
1104	BILGE LEVEL 6-506-0-F	B		B	P	1	3	276	5	2	275	0	0	40		
1105	BILGE LEVEL 3-426-1-E	B		B	P	1	3	276	5	2	275	0	0	40		
1106	BILGE LEVEL 3-398-0-Q	B		B	P	1	3	276	5	2	275	0	0	40		
1107	BILGE LEVEL 2-518-1-V	B		B	P	1	3	276	5	2	275	0	0	40		
1110	BILGE LEVEL 5-174-0-E	B		B	P	1	3	276	5	2	275	0	0	40		
1111	BILGE LEVEL 5-220-01-E	B		B	P	1	3	276	5	2	275	0	0	40		
1112	BILGE LEVEL 5-260-01-E	B		B	P	1	3	276	5	2	275	0	0	40		
1113	BILGE LEVEL 5-300-0-E	B		B	P	1	3	276	5	2	275	0	0	40		
1114	BILGE LEVEL 6-382-3-V	B		B	P	1	3	276	5	2	275	0	0	40		
1115	BILGE LEVEL PORT SHAFT ALLEY	B		B	P	1	3	276	5	2	275	0	0	40		
1116	BILGE LEVEL STBD SHAFT ALLEY	B		B	P	1	3	276	5	2	275	0	0	40		
1117	BILGE LEVEL SEWAGE PLANT	B		B	P	1	3	276	5	2	275	0	0	40		
1120X1	HI LEVEL FILL-AUDIBLE ALARM	D		G	P	1	4	36	1	2	275	0	0	10		
1121X1	HI LEVEL FILL-AUDIBLE ALARM	D		G	P	1	4	36	1	02	150	2	0	10		

SIGNAL ID	SIGNAL NAME	INPUT TYPE	OUTPUT TYPE	UPDATE MODE	P	R	DECK	FRAME	LOCATION--SINK	LOCATION--NO.	WDS	PER SEC	UPDATES VITAL
1160x2	LO DOME WATER PR-AUDIBLE AL	D	G	P	1	4	36	1	2	275	0	10	
1161x2	LO DOME WATER PR-VISUAL AL	D	G	P	1	4	36	1	02	150	2	10	
117x3	LO DOME WATER PR-VISUAL AL	D	G	P	1	4	36	1	2	275	0	10	
117x3	LO DOME WATER PR-VISUAL AL	D	G	P	1	4	36	1	02	150	2	10	
117x3	LO DOME WATER PR-VISUAL AL	D	G	P	1	4	36	1	2	275	0	10	
118x4	HI DOME WATER PR-AUDIBLE AL	D	G	P	1	4	36	1	02	150	2	10	
118x4	HI DOME WATER PR-AUDIBLE AL	D	G	P	1	4	36	1	02	150	2	10	
1190x5	HI DOME WATER PR-VISUAL AL	D	G	P	1	4	36	1	02	150	2	10	
1191x5	HI DOME WATER PR-VISUAL AL	D	G	P	1	4	36	1	02	150	2	10	
120x6	LO PRESS AIR-AUDIBLE ALARM	D	G	P	1	4	36	1	2	275	0	10	
121x6	LO PRESS AIR-AUDIBLE ALARM	D	G	P	1	4	36	1	02	150	2	10	
122x	FLOW SWITCH - WATER ON	D	G	P	1	4	36	1	02	150	2	10	
123x	FLOW SWITCH - WATER OFF	D	G	P	1	4	36	1	02	150	2	10	
124x	ASROC COOLING ALARM	B	B	P	1	1	133	0	2	275	0	40	
125x	SOLAR COOLING ALARM	B	B	P	1	1	133	0	2	275	0	40	
126x	ELEK HI TEMP ALARM (AL LP 1)	B	B	P	1	01	210	1	2	275	0	40	
127x	ELEK HI TEMP ALARM (AL LP 2)	B	B	P	1	01	210	1	2	275	0	40	
128x	CABINET INTERLOCK 28VAC	D	G	P	1	02	139	0	02	252	0	10	
129x	STANDBY INDICATOR	D	G	P	1	02	139	0	02	252	0	10	
130x	28VAC CABINET RADIATE REMOTE	D	G	P	1	02	139	0	02	252	0	10	
131x	COOLANT FLOW ALARM INDICATOR	D	G	P	1	02	139	0	02	252	0	10	
132x	LEOW ANTENNA SPD CHANGE IND	D	G	P	1	02	139	0	02	252	0	10	
133x	LOCAL INDICATOR	D	G	P	1	02	139	0	02	252	0	10	
134x	RADIATE INDICATOR	D	G	P	1	02	139	0	02	252	0	10	
135x	28VAC RADIATE/RECEIVER TEST	D	G	P	1	02	252	0	02	139	0	10	
136x	READY INDICATOR	D	G	P	1	02	139	0	02	252	0	10	
137x	PRESTANDBY REMOTE	D	G	P	1	02	139	0	02	252	0	10	
138x	REMOLE LFOW/LPM POWER IND	D	G	P	1	02	139	0	02	252	0	10	
139x	STANDBY RECEIVER TEST	D	G	P	1	02	139	0	02	252	0	10	
140x	ANTENNA INTERLOCK/OPERATE	D	G	P	1	02	252	0	02	139	0	10	
141x	ANTENNA OPERATE INDICATOR	D	G	P	1	02	139	0	02	252	0	10	
142x	DUMMY LOAD INDICATOR	D	G	P	1	02	139	0	02	252	0	10	
1421	STANDBY/RADIATE	D	G	P	1	02	139	0	02	252	0	10	
1430	CABINET OVERHEAT ALARM IND	D	G	P	1	02	139	0	02	252	0	10	
1440	AIR PRESSURE ALARM INDICATOR	D	G	P	1	02	139	0	02	252	0	10	
1450	AMMO SELECT ACC	D	A	P	1	01	150	0	1	85	0	10	

10/29/79

SIGNAL ID	SIGNAL NAME	INPUT		UPDATE MODE	SOURCE LOCATION		SINK LOCATION		NO. UPDATES		VITAL			
		TYPE	TYPE		P	R	DECK	FRAME	TRANSV	DECK		FRAME	TRANSV	WDS
1690	AWG SELECT APP	MT51	D	A	P	1	01	150	0	1	85	0	0	10
1691	AWG SELECT COM	MT51	D	A	P	1	01	150	0	1	85	0	0	10
1692	AWG SELECT CVT	MT51	D	A	P	1	01	150	0	1	85	0	0	10
1693	AWG SELECT ILL	MT51	D	A	P	1	01	150	0	1	85	0	0	10
1694	AWG SELECT PO	MT51	D	A	P	1	01	150	0	1	85	0	0	10
1695	AWG SELECT RAP	MT51	D	A	P	1	01	150	0	1	85	0	0	10
1696	AWG SELECT RED CHG	MT51	D	A	P	1	01	150	0	1	85	0	0	10
1697	AWG SELECT STD CHG	MT51	D	A	P	1	01	150	0	1	85	0	0	10
1698	AWG SELECT VT	MT51	D	A	P	1	01	150	0	1	85	0	0	10
1699	AWG SELECT WP	MT51	D	A	P	1	01	150	0	1	85	0	0	10
1700	DIRECT CONTROL REQUEST	MT51	D	A	P	1	01	150	0	1	85	0	0	10
1701	FUSE SETTER RUN	MT51	D	A	P	1	01	150	0	1	85	0	0	10
1702	FUSE SETTER SAFE	MT51	D	A	P	1	01	150	0	1	85	0	0	10
1703	LOAD CR FR SINGLE	MT51	D	A	P	1	01	150	0	1	85	0	0	10
1704	LOAD CR FR CONTINUOUS	MT51	D	A	P	1	01	150	0	1	85	0	0	10
1705	GUN IN STANDBY	MT51	D	A	P	1	1	85	0	0	150	0	0	10
1706	GUN FIRED	MT51	D	A	P	1	1	85	0	0	150	0	0	10
1707	GUN READY TO FIRE	MT51	D	A	P	1	1	85	0	0	150	0	0	10
1708	MOUNT SYNCH	MT51	D	A	P	1	1	85	0	0	150	0	0	10
1709	FUSE SET ORDER	MT51	M1	M1	P	1	01	150	0	1	85	0	1	300
1710	FUSE GET ORDER	MT51	M2	M2	P	1	01	150	0	1	85	0	1	300
1711	GUN ELEVATION ORDER	MT51	M1	M1	P	1	01	150	0	1	85	0	1	300
1712	GUN ELEVATION ORDER	MT51	M2	M2	P	1	01	150	0	1	85	0	1	300
1713	ELEVATION RATE ORDER	MT51	C	C	P	1	01	150	0	1	85	0	1	300
1714	GUN TRAIN ORDER	MT51	M1	M1	P	1	01	150	0	1	85	0	1	300
1715	GUN TRAIN ORDER	MT51	M2	M2	P	1	01	150	0	1	85	0	1	300
1716	TRAIN RATE ORDER	MT51	C	C	P	1	01	150	0	1	85	0	1	300
1717	GUN ELEVATION POSITION	MT51	M1	M1	P	1	1	85	0	0	150	0	1	300
1718	GUN ELEVATION POSITION	MT51	M2	M2	P	1	1	85	0	0	150	0	1	300
1719	GUN TRAIN POSITION	MT51	M1	M1	P	1	1	85	0	0	150	0	1	300
1720	GUN TRAIN POSITION	MT51	M2	M2	P	1	1	85	0	0	150	0	1	300
1721	AWG SELECT AAC	MT52	D	A	P	1	01	150	0	2	465	0	0	10
1722	AWG SELECT APP	MT52	D	A	P	1	01	150	0	2	465	0	0	10
1723	AWG SELECT COM	MT52	D	A	P	1	01	150	0	2	465	0	0	10
1724	AWG SELECT CVT	MT52	D	A	P	1	01	150	0	2	465	0	0	10

10/29/79

SIGNAL ID	SIGNAL NAME	INPUT		UPDATE MODE	SOURCE LOCATION		SINK LOCATION		NO. UPDATES				
		TYPE	TYPE		P	R	DECK	FRAME	DECK	FRAME	WDS	PER SEC	VITAL
1720	AWP SELECT ILL	MT52	D	A	1	01	150	0	2	465	0	0	10
1720	AWP SELECT PD	MT52	D	A	1	01	150	0	2	465	0	0	10
1720	AWP SELECT RAP	MT52	D	A	1	01	150	0	2	465	0	0	10
1720	AWP SELECT RED CHG	MT52	D	A	1	01	150	0	2	465	0	0	10
1720	AWP SELECT STD CHG	MT52	D	A	1	01	150	0	2	465	0	0	10
1720	AWP SELECT VT	MT52	D	A	1	01	150	0	2	465	0	0	10
1720	AWP SELECT W	MT52	D	A	1	01	150	0	2	465	0	0	10
1720	DIRECT CONTROL REQUEST	MT52	D	A	1	01	150	0	2	465	0	0	10
1720	FUZE SETTER RUN	MT52	D	A	1	01	150	0	2	465	0	0	10
1720	FUZE SETTER SAFE	MT52	D	A	1	01	150	0	2	465	0	0	10
1720	LOAD ORDER SINGLE	MT52	D	A	1	01	150	0	2	465	0	0	10
1720	LOAD ORDER CONTINUOUS	MT52	D	A	1	01	150	0	2	465	0	0	10
1720	GUN FIRED	MT52	D	A	1	2	465	0	01	150	0	0	10
1720	GUN IN STANDBY	MT52	D	A	1	2	465	0	01	150	0	0	10
1720	GUN READY TO FIRE	MT52	D	A	1	2	465	0	01	150	0	0	10
1720	MOUNT SYNCH	MT52	D	A	1	2	465	0	01	150	0	0	10
1720	GUN ELEVATION ORDER	MT52	M1	M1	1	01	150	-1	2	465	0	1	300
1720	GUN ELEVATION ORDER	MT52	M1	M1	1	03	326	13	2	465	0	1	300
1720	GUN ELEVATION ORDER	MT52	M2	M2	1	01	150	-1	2	465	0	1	300
1720	GUN ELEVATION ORDER	MT52	M2	M2	1	03	326	13	2	465	0	1	300
1720	GUN ELEVATION ORDER	MT52	M1	M1	1	03	326	13	01	150	5	1	300
1720	GUN ELEVATION ORDER	MT52	M2	M2	1	03	326	13	01	150	5	1	300
1720	ELEVATION RATE ORDER	MT52	C	C	1	01	150	-1	2	465	0	1	300
1720	GUN TRAIN ORDER	MT52	M1	M1	1	01	150	-1	2	465	0	1	300
1720	GUN TRAIN ORDER	MT52	M1	M1	1	03	326	13	2	465	0	1	300
1720	GUN TRAIN ORDER	MT52	M2	M2	1	01	150	-1	2	465	0	1	300
1720	GUN TRAIN ORDER	MT52	M2	M2	1	03	326	13	2	465	0	1	300
1720	GUN TRAIN ORDER	MT52	M1	M1	1	03	326	13	01	150	5	1	300
1720	GUN TRAIN ORDER	MT52	M2	M2	1	03	326	13	01	150	5	1	300
1720	GUN ELEVATION POSITION	MT52	M1	M1	1	01	150	-1	01	150	-1	1	300
1720	GUN ELEVATION POSITION	MT52	M1	M1	1	2	465	0	01	150	-1	1	300
1720	GUN ELEVATION POSITION	MT52	M2	M2	1	01	150	-1	01	150	-1	1	300
1720	GUN ELEVATION POSITION	MT52	M2	M2	1	2	465	0	01	150	-1	1	300
1720	GUN ELEVATION POSITION	MT52	M1	M1	1	2	465	0	01	150	-1	1	300
1720	GUN ELEVATION POSITION	MT52	M2	M2	1	2	465	0	01	150	-1	1	300

10/29/79

SIGNAL ID	SIGNAL NAME	INPUT TYPE	OUTPUT TYPE	UPDATE MODE	R	DECK	SOURCE LOCATION FRAME	LOCATION TRANSV	DECK	SINK LOCATION FRAME	LOCATION TRANSV	NO. WDS	UPDATES PER SEC	VITAL
195111	GUN TRAIN POSITION	M1	M1	P	1	2	465	0	01	150	-1	1	300	
195112	GUN TRAIN POSITION	M1	M1	P	1	01	150	-1	01	150	-1	1	300	
195212	GUN TRAIN POSITION	M2	M2	P	1	2	465	0	01	150	-1	1	300	
195212	GUN TRAIN POSITION	M2	M2	P	1	01	150	-1	01	150	-1	1	300	
195311	GUN TRAIN POSITION	M1	M1	P	1	2	465	0	01	150	5	1	300	
195312	GUN TRAIN POSITION	M2	M2	P	1	2	465	0	01	150	5	1	300	
195511	GUN TRAIN POSITION	M1	M1	P	1	2	465	0	03	140	0	1	300	
1960	TRAIN RATE ORDER	C	C	P	1	01	150	-1	2	465	0	1	300	
197101	FUZE SET ORDER	M1	M1	P	1	01	150	-1	2	465	0	1	300	
197202	FUZE SET ORDER	M2	M2	P	1	01	150	-1	2	465	0	1	300	
1975	TGT-2 DESIGNATED RANGE	M1	M1	P	1	03	326	13	01	150	5	1	300	
1976	TGT-2 DESIGNATED RANGE	M2	M2	P	1	03	326	13	01	150	5	1	300	
1980	AIR COND PLT 1 SUMMARY FAULT	D	A	P	1	5	236	4	2	284	0	0	10	
1990	AIR COND PLT 2 SUMMARY FAULT	D	A	P	1	5	236	4	2	284	0	0	10	
2000	EDUCTOR SUPPLY VALVE OPEN	D	G	P	1	5	260	1	1	272	-3	0	10	
2010	EDUCTOR SUPPLY VALVE CLOSED	D	G	P	1	5	260	1	1	272	-3	0	10	
2020	EDUCTOR SUCTION VALVE OPEN	D	G	P	1	5	260	1	1	272	-3	0	10	
2030	EDUCTOR SUCTION VALVE CLOSED	D	G	P	1	5	260	1	1	272	-3	0	10	
2040	EDUCTOR DISCHARGE VALVE OPEN	D	G	P	1	5	260	1	1	272	-3	0	10	
2050	EDUCTOR DISCHARGE VALVE CLOSED	D	G	P	1	5	260	1	1	272	-3	0	10	
2060	SEAWATER PUMP 2 SUC VAL OPEN	D	G	P	1	5	260	1	1	272	-3	0	10	
2070	SEAWATER PUMP 2 SUC VAL CLSD	D	G	P	1	5	260	1	1	272	-3	0	10	
2080	SEAWATER ISOLATION VAL OPEN	D	G	P	1	5	260	1	1	272	-3	0	10	
2090	SEAWATER ISOLATION VAL CLSD	D	G	P	1	5	260	1	1	272	-3	0	10	
2100	BHD 300 ISOLATION VAL OPEN	D	G	P	1	5	260	1	1	272	-3	0	10	
2110	BHD 300 ISOLATION VAL CLSD	D	G	P	1	5	260	1	1	272	-3	0	10	
2121	MT52 SELECT Mk-86	A	SD	P	1	02	139	0	1	272	-3	0	10	
2122	MT52 SELECT TDT #2	A	SD	P	1	02	139	0	1	272	-3	0	10	
2131	POSITION SELECT SOC	A	SD	P	1	02	139	0	1	272	-3	0	10	
2132	POSITION SELECT EAT	A	SD	P	1	02	139	0	1	272	-3	0	10	

APPENDIX J: SIGNAL TRACE TABLE

SIGNAL	NAME	MESSAGE NO.	RM	IOU	SLOT	CH	SBC	M	TYPE	RM	IOU	SLOT	CH	SBC	M	TYPE	UPDATE MODE	R	RATE	WORDS
0001	NEW DELTA P HIGH	38	8	82	4	2	1	2	D	8	82	1	2	1	2	A	P	1	10	10
0002	NEW DELTA P HIGH	38	8	82	4	2	2	2	D	8	82	1	2	2	2	A	P	1	10	10
0003	NEW DELTA P HIGH	2	8	82	4	1	1	1	D	1	11	1	2	1	1	A	P	1	10	10
0004	NEW DELTA P HIGH	2	8	81	9	1	1	1	D	1	11	1	1	1	1	A	P	1	10	10
0005	NEW DELTA P HIGH	2	8	81	9	1	2	2	D	1	11	1	1	2	2	A	P	1	10	10
0006	NEW DELTA P HIGH	30	8	81	9	3	1	1	D	8	82	1	1	1	1	A	P	1	10	10
0007	NEW DELTA P HIGH	33	2	23	5	1	1	1	D	8	81	1	3	1	1	A	P	1	10	10
0008	NEW DELTA P HIGH	33	2	23	5	1	2	2	D	8	81	1	3	2	2	A	P	1	10	10
0009	NEW DELTA P HIGH	33	2	23	5	1	3	3	D	8	81	1	3	3	3	A	P	1	10	10
0010	NEW DELTA P HIGH	33	2	23	5	1	4	4	D	8	81	1	3	4	4	A	P	1	10	10
0011	NEW DELTA P HIGH	33	2	23	5	2	1	1	D	8	81	1	4	1	1	A	P	1	10	10
0012	NEW DELTA P HIGH	33	2	23	5	2	2	2	D	8	81	1	4	2	2	A	P	1	10	10
0013	NEW DELTA P HIGH	33	2	23	5	2	3	3	D	8	81	1	4	3	3	A	P	1	10	10
0014	NEW DELTA P HIGH	33	2	23	5	2	4	4	D	8	81	1	4	4	4	A	P	1	10	10
0015	NEW DELTA P HIGH	33	2	23	5	3	1	1	D	8	81	1	1	1	1	A	P	1	10	10
0016	NEW DELTA P HIGH	33	2	23	5	3	2	2	D	8	81	1	1	2	2	A	P	1	10	10
0017	NEW DELTA P HIGH	33	2	23	5	3	3	3	D	8	81	1	1	3	3	A	P	1	10	10
0018	NEW DELTA P HIGH	33	2	23	5	3	4	4	D	8	81	1	1	4	4	A	P	1	10	10
0019	NEW DELTA P HIGH	33	2	23	5	4	1	1	D	8	81	1	2	1	1	A	P	1	10	10
0020	NEW DELTA P HIGH	33	2	23	5	4	2	2	D	8	81	1	2	2	2	A	P	1	10	10
0021	NEW DELTA P HIGH	33	2	23	5	4	3	3	D	8	81	1	2	3	3	A	P	1	10	10
0022	NEW DELTA P HIGH	33	2	23	5	4	4	4	D	8	81	1	2	4	4	A	P	1	10	10
0023	NEW DELTA P HIGH	33	2	23	5	5	1	1	D	8	81	1	1	1	1	A	P	1	10	10
0024	NEW DELTA P HIGH	33	2	23	5	5	2	2	D	8	81	1	1	2	2	A	P	1	10	10
0025	NEW DELTA P HIGH	33	2	23	5	5	3	3	D	8	81	1	1	3	3	A	P	1	10	10
0026	NEW DELTA P HIGH	33	2	23	5	5	4	4	D	8	81	1	1	4	4	A	P	1	10	10
0027	NEW DELTA P HIGH	33	2	23	5	6	1	1	D	8	81	1	2	1	1	A	P	1	10	10
0028	NEW DELTA P HIGH	33	2	23	5	6	2	2	D	8	81	1	2	2	2	A	P	1	10	10
0029	NEW DELTA P HIGH	33	2	23	5	6	3	3	D	8	81	1	2	3	3	A	P	1	10	10
0030	NEW DELTA P HIGH	33	2	23	5	6	4	4	D	8	81	1	2	4	4	A	P	1	10	10
0031	NEW DELTA P HIGH	33	2	23	5	7	1	1	D	8	81	1	1	1	1	A	P	1	10	10
0032	NEW DELTA P HIGH	33	2	23	5	7	2	2	D	8	81	1	1	2	2	A	P	1	10	10
0033	NEW DELTA P HIGH	33	2	23	5	7	3	3	D	8	81	1	1	3	3	A	P	1	10	10
0034	NEW DELTA P HIGH	33	2	23	5	7	4	4	D	8	81	1	1	4	4	A	P	1	10	10
0035	NEW DELTA P HIGH	33	2	23	5	8	1	1	D	8	81	1	1	1	1	A	P	1	10	10
0036	NEW DELTA P HIGH	33	2	23	5	8	2	2	D	8	81	1	1	2	2	A	P	1	10	10
0037	NEW DELTA P HIGH	33	2	23	5	8	3	3	D	8	81	1	1	3	3	A	P	1	10	10
0038	NEW DELTA P HIGH	33	2	23	5	8	4	4	D	8	81	1	1	4	4	A	P	1	10	10
0039	NEW DELTA P HIGH	33	2	23	5	9	1	1	D	8	81	1	1	1	1	A	P	1	10	10
0040	NEW DELTA P HIGH	33	2	23	5	9	2	2	D	8	81	1	1	2	2	A	P	1	10	10
0041	NEW DELTA P HIGH	33	2	23	5	9	3	3	D	8	81	1	1	3	3	A	P	1	10	10
0042	NEW DELTA P HIGH	33	2	23	5	9	4	4	D	8	81	1	1	4	4	A	P	1	10	10
0043	NEW DELTA P HIGH	33	2	23	5	10	1	1	D	8	81	1	2	1	1	A	P	1	10	10
0044	NEW DELTA P HIGH	33	2	23	5	10	2	2	D	8	81	1	2	2	2	A	P	1	10	10
0045	NEW DELTA P HIGH	33	2	23	5	10	3	3	D	8	81	1	2	3	3	A	P	1	10	10
0046	NEW DELTA P HIGH	33	2	23	5	10	4	4	D	8	81	1	2	4	4	A	P	1	10	10
0047	NEW DELTA P HIGH	33	2	23	5	11	1	1	D	8	81	1	3	1	1	A	P	1	10	10
0048	NEW DELTA P HIGH	33	2	23	5	11	2	2	D	8	81	1	3	2	2	A	P	1	10	10
0049	NEW DELTA P HIGH	33	2	23	5	11	3	3	D	8	81	1	3	3	3	A	P	1	10	10
0050	NEW DELTA P HIGH	33	2	23	5	11	4	4	D	8	81	1	3	4	4	A	P	1	10	10
0051	NEW DELTA P HIGH	33	2	23	5	12	1	1	D	8	81	1	1	1	1	A	P	1	10	10
0052	NEW DELTA P HIGH	33	2	23	5	12	2	2	D	8	81	1	1	2	2	A	P	1	10	10
0053	NEW DELTA P HIGH	33	2	23	5	12	3	3	D	8	81	1	1	3	3	A	P	1	10	10
0054	NEW DELTA P HIGH	33	2	23	5	12	4	4	D	8	81	1	1	4	4	A	P	1	10	10
0055	NEW DELTA P HIGH	33	2	23	5	13	1	1	D	8	81	1	1	1	1	A	P	1	10	10
0056	NEW DELTA P HIGH	33	2	23	5	13	2	2	D	8	81	1	1	2	2	A	P	1	10	10
0057	NEW DELTA P HIGH	33	2	23	5	13	3	3	D	8	81	1	1	3	3	A	P	1	10	10
0058	NEW DELTA P HIGH	33	2	23	5	13	4	4	D	8	81	1	1	4	4	A	P	1	10	10
0059	NEW DELTA P HIGH	33	2	23	5	14	1	1	D	8	81	1	1	1	1	A	P	1	10	10
0060	NEW DELTA P HIGH	33	2	23	5	14	2	2	D	8	81	1	1	2	2	A	P	1	10	10
0061	NEW DELTA P HIGH	33	2	23	5	14	3	3	D	8	81	1	1	3	3	A	P	1	10	10
0062	NEW DELTA P HIGH	33	2	23	5	14	4	4	D	8	81	1	1	4	4	A	P	1	10	10
0063	NEW DELTA P HIGH	33	2	23	5	15	1	1	D	8	81	1	1	1	1	A	P	1	10	10
0064	NEW DELTA P HIGH	33	2	23	5	15	2	2	D	8	81	1	1	2	2	A	P	1	10	10
0065	NEW DELTA P HIGH	33	2	23	5	15	3	3	D	8	81	1	1	3	3	A	P	1	10	10
0066	NEW DELTA P HIGH	33	2	23	5	15	4	4	D	8	81	1	1	4	4	A	P	1	10	10
0067	NEW DELTA P HIGH	33	2	23	5	16	1	1	D	8	81	1	1	1	1	A	P	1	10	10
0068	NEW DELTA P HIGH	33	2	23	5	16	2	2	D	8	81	1	1	2	2	A	P	1	10	10
0069	NEW DELTA P HIGH	33	2	23	5	16	3	3	D	8	81	1	1	3	3	A	P	1	10	10
0070	NEW DELTA P HIGH	33	2	23	5	16	4	4	D	8	81	1	1	4	4	A	P	1	10	10
0071	NEW DELTA P HIGH	33	2	23	5	17	1	1	D	8	81	1	1	1	1	A	P	1	10	10
0072	NEW DELTA P HIGH	33	2	23	5	17	2	2	D	8	81	1	1	2	2	A	P	1	10	10
0073	NEW DELTA P HIGH	33	2	23	5	17	3	3	D	8	81	1	1	3	3	A	P	1	10	10
0074	NEW DELTA P HIGH	33	2	23	5	17	4	4	D	8	81	1	1	4	4	A	P	1	10	10
0075	NEW DELTA P HIGH	33	2	23	5	18	1	1	D	8	81	1	1	1	1	A	P	1	10	10
0076	NEW DELTA P HIGH	33	2	23	5	18	2	2	D	8	81	1	1	2	2	A	P	1	10	10
0077	NEW DELTA P HIGH	33	2	23	5	18	3	3	D	8	81	1	1	3	3	A	P	1	10	10
0078	NEW DELTA P HIGH	33	2	23	5	18	4	4	D	8	81	1	1	4	4	A	P	1	10	10
0079	NEW DELTA P HIGH	33	2	23	5	19	1	1	D	8	81	1	1	1	1	A	P	1	10	10
0080	NEW DELTA P HIGH	33	2	23	5	19	2	2	D	8	81	1	1	2	2	A	P	1	10	10
0081	NEW DELTA P HIGH	33	2	23	5	19	3	3	D	8	81	1	1	3	3	A	P	1	10	10
0082	NEW DELTA P HIGH	33	2	23	5	19	4	4	D	8	81	1	1	4	4	A	P	1	10	10
0083	NEW DELTA P HIGH	33	2	23	5	20	1	1	D	8	81	1	1	1	1	A	P	1	10	10
0084	NEW DELTA P HIGH	33	2	23	5	20	2	2	D	8	81	1	1	2	2	A	P	1	10	10
0085	NEW DELTA P HIGH	33	2	23	5	20	3	3	D	8	81	1	1	3	3	A	P	1	10	10
0086	NEW DELTA P HIGH	33	2	23	5	20	4	4	D	8	81	1								

SIGNAL TRACE TABLE

SIGNAL SW ID CL	MESSAGE NO.	SIGNAL NAME	INPUT			OUTPUT			UPDATE MODE	P R	RATE	WORDS				
			RM	IOU	SLOT CH	SBC	M	TYPE					RM	IOU	SLOT CH	SBC
0550	5	TSP TEST CONTROL CODE D	4	41	11	2	4	D	2	23	2	2	4	A	1	10
0550	14	TSP TEST MODE INDICATION	2	23	3	4	1	D	4	41	2	1	1	A	1	10
0551	14	WEAPON READY	2	23	3	4	2	D	4	41	2	1	2	A	1	10
0570	14	GYRO SETTING (SENSE) A	2	23	3	4	3	D	4	41	2	1	3	A	1	10
0580	14	GYRO SETTING (SENSE) B	2	23	3	4	4	D	4	41	2	1	4	A	1	10
0590	14	GYRO SETTING (SENSE) C	2	23	4	1	1	D	4	41	2	2	1	A	1	10
0600	14	GYRO DEPTH SETTING (DEPTH IND) A	2	23	4	1	2	D	4	41	2	2	2	A	1	10
0610	14	GYRO DEPTH SETTING (DEPTH IND) B	2	23	4	1	3	D	4	41	2	2	3	A	1	10
0620	14	GYRO DEPTH SETTING (DEPTH IND) C	2	23	4	1	4	D	4	41	2	2	4	A	1	10
0630	14	TUBE SELECTED A	2	23	4	2	1	D	4	41	2	3	1	A	1	10
0640	14	TUBE SELECTED B	2	23	4	2	2	D	4	41	2	3	2	A	1	10
0650	14	TUBE SELECTED C	2	23	4	2	3	D	4	41	2	3	3	A	1	10
0660	14	TUBE STATUS 1	2	23	4	2	4	D	4	41	2	3	4	A	1	10
0670	14	TUBE STATUS 2	2	23	4	3	1	D	4	41	2	4	1	A	1	10
0680	14	TUBE STATUS 3	2	23	4	3	2	D	4	41	2	4	2	A	1	10
0690	14	TUBE STATUS 4	2	23	4	3	3	D	4	41	2	4	3	A	1	10
0700	14	TUBE STATUS 5	2	23	4	3	4	D	4	41	2	4	4	A	1	10
0710	14	TUBE STATUS 6	2	23	4	4	1	D	4	41	3	1	1	A	1	10
0720	17	SONAR TGT SIMULATOR INPUT	5	51	12	1	1	P	4	41	6	1	1	P	1	40
0730	22	SONAR TGT SIMULATOR OUTPUT	4	41	15	1	1	P	5	51	9	1	1	P	1	40
0740	25	1 C DISPLAY GP AN/UYA-6 IN	6	61	11	1	1	P	5	52	3	1	1	P	1	40
0750	28	1 C DISPLAY GP AN/UYA-6 OUT	5	52	7	1	1	P	6	61	8	1	1	P	1	40
076A1	10	DSH INDICATOR PILOT HOUSE	1	11	5	1	1	J	3	31	1	1	1	J	1	10
0762A2	10	DSH INDICATOR PILOT HOUSE	1	11	5	2	1	J	3	31	1	2	1	J	1	10
0771A1	3	DSH INDICATOR IC & GYRO RM 2	1	11	5	1	1	M	2	21	1	1	1	J	1	10
078A1	26	DSH INDICATOR #1 CIC	1	11	5	1	1	M	6	61	4	1	1	J	1	10
079A1	26	DSH INDICATOR #2 CIC	1	11	5	1	1	M	6	61	4	2	1	J	1	10
080A1	13	DSH IND DATA PROCESSING CTR	1	11	5	1	1	M	4	42	1	1	1	J	1	10
081A1	26	DSH TO VERT PLOT BRD (CIC)	1	11	5	1	1	M	6	61	6	1	1	J	1	10
082A1	26	DSH TO SONAR CONTROL (CIC)	1	11	5	1	1	M	6	61	4	3	1	J	1	10
0830	1	DSH INDICATOR IC RM #1	2	21	3	1	1	J	5	51	5	3	1	J	1	10
0841	21	DSH TO AN/SQS-53 SONAR (ICSS)	4	42	15	3	1	J	5	51	5	3	1	J	1	10
0842	21	DSH TO AN/SQS-53 SONAR (ICSS)	4	42	15	4	1	J	5	51	5	4	1	J	1	10
0851B1	4	DSH IND STEERING GEAR RM	2	21	3	2	1	J	2	22	4	1	1	J	1	10
0852B2	4	DSH IND STEERING GEAR RM	2	21	3	3	1	J	2	22	4	2	1	J	1	10
0861B1	11	DSH IND SHIP CONTROL CONSOLE	2	21	3	2	1	M	3	31	1	3	1	J	1	10
0862B2	11	DSH IND SHIP CONTROL CONSOLE	2	21	3	3	1	M	3	31	1	4	1	J	1	10
0871C1	15	DSH TO RADAR AZIMUTH CONVERT	4	42	13	1	1	J	4	42	3	2	1	J	1	300
0872C2	15	DSH TO RADAR AZIMUTH CONVERT	4	42	13	2	1	J	4	42	3	3	1	J	1	300
0881C1	30	DSH TO TACAN	4	42	13	1	1	M	7	71	3	1	1	LT	1	300
0882C2	30	DSH TO TACAN	4	42	13	2	1	M	7	71	3	1	1	LT	1	300
0891C1	12	DSH TO SP5-40	4	42	13	1	1	M	3	31	5	1	1	LT	1	10
0892C2	12	DSH TO SP5-40	4	42	13	2	1	M	3	31	5	1	1	LT	1	10
0901C1	30	DSH TO TOT #1 (VIA ICSS)	4	42	13	1	1	M	7	71	7	1	1	LT	1	10
0902C2	30	DSH TO TOT #1 (VIA ICSS)	4	42	13	2	1	M	7	71	7	1	1	LT	1	10
0911C1	21	DSH TO SOS-53 SONAR (ICSS)	4	42	16	1	1	J	5	51	7	1	1	J	1	10
0912C2	21	DSH TO SOS-53 SONAR (ICSS)	4	42	16	2	1	J	5	51	7	2	1	J	1	10
0921C1	30	DSH TO TACAN	4	42	16	1	1	M	7	71	9	1	1	LT	1	10
0922C2	30	DSH TO TACAN	4	42	16	2	1	M	7	71	9	1	1	LT	1	10
0931C1	21	PITCH TO SOS-53 SONAR (ICSS)	4	42	16	3	1	J	5	51	7	3	1	J	1	10
0932C2	21	PITCH TO SOS-53 SONAR (ICSS)	4	42	16	4	1	J	5	51	7	4	1	J	1	10
0941C1	15	DSH TO SOT MK1 MOD3	4	42	13	3	1	J	4	42	3	4	1	J	1	300
0942C2	15	DSH TO SOT MK1 MOD3	4	42	13	4	1	J	4	42	5	1	1	J	1	300
0951C1	15	PITCH TO SOT MK1 MOD3	4	42	14	1	1	J	4	42	5	2	1	J	1	300
0952C2	15	PITCH TO SOT MK1 MOD3	4	42	14	2	1	J	4	42	5	3	1	J	1	300
1001	15	PITCH TO SOT MK1 MOD3	4	42	14	3	1	J	4	42	5	4	1	J	1	300
1002	15	PITCH TO SOT MK1 MOD3	4	42	14	4	1	J	4	42	7	1	1	J	1	300

SIGNAL SW ID CL	MESSAGE NO.	SIGNAL NAME	RM	IOU	SLOT	CH	SBC	M	TYPE	RM	IOU	SLOT	CH	SBC	M	TYPE	UPDATE MODE	R	RATE	WORDS
1001	15	SWA SHIP SPEED TO SOIWA1W003	4	42	15	1	1	1	J	4	42	7	2	1	1	J	P	1	300	1
1012	15	SWA SHIP SPEED TO SOIWA1W003	4	42	15	2	1	1	J	4	42	7	3	1	1	J	P	1	300	1
1020	31	TACAN EMERGENCY NORMAL	6	61	9	1	1	1	A	7	71	1	1	1	1	D	P	1	10	
1030	31	TACAN EMERGENCY SHUTDOWN	6	61	9	1	2	1	A	7	71	1	1	2	1	D	P	1	10	
1040	29	TACAN EMERG SHUTDN INDICATOR	7	71	12	1	1	1	D	6	61	1	1	1	1	A	P	1	10	
1050	29	TRANSPONDER ON INDICATOR	7	71	12	1	2	1	D	6	61	1	1	2	1	A	P	1	10	
1060	29	TRANSPONDER ON STANDBY	7	71	12	1	3	1	D	6	61	1	1	3	1	A	P	1	10	
1070	29	WOTROR ALARM	7	71	12	1	4	1	D	6	61	1	1	4	1	A	P	1	10	
1080	29	SYSTEM NORMAL	7	71	12	2	1	1	D	6	61	2	1	1	1	D	P	1	10	
1090	37	HI TEMP DET-B (AV STORE RM)	7	71	11	1	1	1	B	8	81	3	2	1	1	B	P	1	40	
1091	37	HI TEMP DET-A (ROY TORP LKR)	7	71	11	1	2	1	B	8	81	3	2	2	1	B	P	1	40	
1092	37	HI TEMP DET-C (HELLO HANGER)	7	71	11	2	1	1	B	8	81	3	3	1	1	B	P	1	40	
1100	38	BILGE LEVEL 6-338-2-F	8	82	2	1	1	1	B	8	81	4	1	1	1	B	P	1	40	
1101	38	BILGE LEVEL 4-464-0-Y	8	82	2	1	2	1	B	8	81	4	1	2	1	B	P	1	40	
1102	38	BILGE LEVEL 6-464-3-Q	8	82	2	2	1	2	B	8	81	4	2	2	1	B	P	1	40	
1103	38	BILGE LEVEL 6-382-4-V	8	82	2	2	2	2	B	8	81	4	2	2	2	B	P	1	40	
1104	38	BILGE LEVEL 6-506-0-F	8	82	2	3	1	1	B	8	81	4	3	1	1	B	P	1	40	
1105	38	BILGE LEVEL 3-426-1-E	8	82	2	3	2	2	B	8	81	4	3	2	2	B	P	1	40	
1106	38	BILGE LEVEL 3-398-0-Q	8	82	2	4	1	1	B	8	81	4	4	1	1	B	P	1	40	
1107	38	BILGE LEVEL 2-519-1-V	8	82	2	4	2	2	B	8	81	4	4	2	2	B	P	1	40	
1110	38	BILGE LEVEL 5-174-0-E	8	82	3	1	1	1	B	8	81	5	1	1	1	B	P	1	40	
1111	38	BILGE LEVEL 5-220-01-E	8	82	3	1	2	1	B	8	81	5	1	2	1	B	P	1	40	
1112	38	BILGE LEVEL 5-260-01-E	8	82	3	2	1	1	B	8	81	5	2	1	1	B	P	1	40	
1113	38	BILGE LEVEL 5-300-0-E	8	82	3	2	2	2	B	8	81	5	2	2	2	B	P	1	40	
1114	38	BILGE LEVEL 6-382-3-V	8	82	3	3	1	1	B	8	81	5	3	1	1	B	P	1	40	
1115	38	BILGE LEVEL PORT SHAFT ALLEY	8	82	3	3	2	2	B	8	81	5	3	2	2	B	P	1	40	
1116	38	BILGE LEVEL STBD SHAFT ALLEY	8	82	3	4	1	1	B	8	81	5	4	1	1	B	P	1	40	
1117	38	BILGE LEVEL SEWAGE PLANT	8	82	3	4	2	2	B	8	81	5	4	2	2	B	P	1	40	
1120X1	35	HI LEVEL FILL-AUDIBLE ALARM	5	51	10	3	1	1	D	6	61	6	4	1	1	G	P	1	10	
1121X1	27	HI LEVEL FILL-AUDIBLE ALARM	5	51	10	3	2	1	D	6	61	6	4	1	1	G	P	1	10	
1160X2	35	LO DOME WATER PR-AUDIBLE AL	5	51	10	3	2	2	M	6	61	6	4	2	2	G	P	1	10	
1161X2	27	LO DOME WATER PR-AUDIBLE AL	5	51	10	3	2	2	M	6	61	6	4	2	2	G	P	1	10	
1170X3	35	LO DOME WATER PR-VISUAL AL	5	51	10	3	3	3	M	6	61	6	4	3	3	G	P	1	10	
1171X3	27	LO DOME WATER PR-VISUAL AL	5	51	10	3	3	3	M	6	61	6	4	3	3	G	P	1	10	
1180X4	35	HI DOME WATER PR-AUDIBLE AL	5	51	10	3	4	4	M	6	61	6	4	4	4	G	P	1	10	
1181X4	27	HI DOME WATER PR-AUDIBLE AL	5	51	10	3	4	4	M	6	61	6	4	4	4	G	P	1	10	
1190X5	35	HI DOME WATER PR-VISUAL AL	5	51	10	4	1	1	D	6	61	7	1	1	1	G	P	1	10	
1191X5	27	HI DOME WATER PR-VISUAL AL	5	51	10	4	1	1	D	6	61	7	1	1	1	G	P	1	10	
1210X6	35	LO PRESS AIR-AUDIBLE ALARM	5	51	10	4	2	2	M	6	61	7	1	2	2	G	P	1	10	
1211X6	27	LO PRESS AIR-AUDIBLE ALARM	5	51	10	4	2	2	M	6	61	7	1	2	2	G	P	1	10	
1220	27	FLOW SWITCH - WATER ON	5	51	10	2	1	1	D	6	61	3	2	3	2	G	P	1	10	
1230	27	FLOW SWITCH - WATER OFF	5	51	10	2	2	2	D	6	61	3	2	3	3	G	P	1	10	
1240	34	ASROC COOLING ALARM	4	41	7	1	1	1	B	8	81	3	1	1	1	B	P	1	40	
1250	34	SCVAC COOLING ALARM	4	41	7	1	2	2	B	8	81	3	1	2	2	B	P	1	40	
1260	37	ELEX HI TEMP ALARM (AL LP 1)	7	71	11	2	2	2	B	8	81	3	3	2	2	B	P	1	40	
1270	37	ELEX HI TEMP ALARM (AL LP 2)	7	71	11	3	1	1	B	8	81	3	4	1	1	B	P	1	40	
1280	31	CABINET INTERLOCK 28VAC	6	61	10	1	1	1	D	7	71	2	1	1	1	G	P	1	10	
1290	31	STANDBY INDICATOR	6	61	10	1	2	2	D	7	71	2	1	2	2	G	P	1	10	
1300	31	28VAC CABINET RADIATE REMOTE	6	61	10	1	3	3	D	7	71	2	1	3	3	G	P	1	10	
1310	31	COOLANT FLOW ALARM INDICATOR	6	61	10	1	4	4	D	7	71	2	1	4	4	G	P	1	10	
1320	31	LFOW ANTENNA SPD CHANGE IND	6	61	10	2	1	1	D	7	71	2	2	1	1	G	P	1	10	
1330	31	LOCAL INDICATOR	6	61	10	2	2	2	D	7	71	2	2	2	2	G	P	1	10	
1340	31	RADIATE INDICATOR	6	61	10	2	3	3	D	7	71	2	2	3	3	G	P	1	10	
1350	29	28VAC RADIATE/RECEIVER TEST	7	71	12	2	2	2	D	6	61	3	3	1	1	G	P	1	10	
1360	31	READY INDICATOR	6	61	10	2	4	4	D	7	71	2	2	4	4	G	P	1	10	

SIGNAL SW ID	CL	SIGNAL NAME	MESSAGE NO.		INPUT				OUTPUT				UPDATE		RATE	WORDS		
			RM	IOU	SLOT	CH	SBC	M	TYPE	RM	IOU	SLOT	CH	SBC			M	TYPE
1370		PRESTANDBY REMOTE	31	6	61	10	3	1	D	7	71	2	3	1	G	P	1	10
1380		REXOTE LFM/LRM POWER IND	31	6	61	10	3	2	D	7	71	2	3	2	G	P	1	10
1390		STANDBY RECEIVER TEST	31	6	61	10	3	3	D	7	71	2	3	3	G	P	1	10
1400		ANTENNA INTERLOCK/OPERATE	29	7	71	12	2	3	D	6	61	3	3	2	G	P	1	10
1410		ANTENNA OPERATE INDICATOR	31	6	61	10	3	4	D	7	71	2	3	4	G	P	1	10
1420		CUNY LOAD INDICATOR	31	6	61	10	4	1	D	7	71	2	4	1	G	P	1	10
1421		STANDBY/RADIATE	31	6	61	10	4	2	D	7	71	2	4	2	G	P	1	10
1430		CABINET OVERHEAT ALARM IND	31	6	61	10	4	3	D	7	71	2	4	3	G	P	1	10
1440		AIR PRESSURE ALARM INDICATOR	31	6	61	10	4	4	D	7	71	2	4	4	G	P	1	10
1480		AMMO SELECT ACC	21	4	41	11	3	1	D	5	51	1	1	1	A	P	1	10
1490		AMMO SELECT APP	21	4	41	11	3	2	D	5	51	1	1	2	A	P	1	10
1500		AMMO SELECT COM	21	4	41	11	3	3	D	5	51	1	1	3	A	P	1	10
1510		AMMO SELECT CVT	21	4	41	11	3	4	D	5	51	1	1	4	A	P	1	10
1520		AMMO SELECT ILL	21	4	41	11	4	1	D	5	51	1	1	1	A	P	1	10
1530		AMMO SELECT PO	21	4	41	11	4	2	D	5	51	1	1	2	A	P	1	10
1540		AMMO SELECT RAP	21	4	41	11	4	3	D	5	51	1	1	3	A	P	1	10
1550		AMMO SELECT RED CHG	21	4	41	11	4	4	D	5	51	1	1	4	A	P	1	10
1560		AMMO SELECT STD CHG	21	4	41	12	1	1	D	5	51	1	1	1	A	P	1	10
1570		AMMO SELECT VT	21	4	41	12	1	2	D	5	51	1	1	2	A	P	1	10
1580		AMMO SELECT WP	21	4	41	12	1	3	D	5	51	1	1	3	A	P	1	10
1590		DIRECT CONTROL REQUEST	21	4	41	12	1	4	D	5	51	1	1	4	A	P	1	10
1600		FUZE SETTER RUN	21	4	41	12	2	1	D	5	51	1	1	1	A	P	1	10
1610		FUZE SETTER SAFE	21	4	41	12	2	2	D	5	51	1	1	2	A	P	1	10
1620		LOAD ORDER SINGLE	21	4	41	12	2	3	D	5	51	1	1	3	A	P	1	10
1621		LOAD ORDER CONTINUOUS	21	4	41	12	2	4	D	5	51	1	1	4	A	P	1	10
1630		GUN IN STANDBY	16	5	51	10	1	1	D	4	41	3	2	1	A	P	1	10
1640		GUN FIRED	16	5	51	10	1	2	D	4	41	3	2	2	A	P	1	10
1650		GUN READY TO FIRE	16	5	51	10	1	3	D	4	41	3	2	3	A	P	1	10
1651		WOULD SYNC	16	5	51	10	1	4	D	4	41	3	2	4	A	P	1	10
1661		FUZE SET ORDER	23	4	41	13	1	1	J	5	51	3	1	1	J	P	1	300
1662		FUZE SET ORDER	23	4	41	13	2	1	J	5	51	3	2	1	J	P	1	300
1671		GUN ELEVATION ORDER	23	4	41	13	3	1	J	5	51	3	3	1	J	P	1	300
1672		GUN ELEVATION ORDER	23	4	41	13	4	1	J	5	51	3	4	1	J	P	1	300
1680		ELEVATION RATE ORDER	23	4	41	8	1	1	C	5	51	2	1	1	C	P	1	300
1691		GUN TRAIN ORDER	23	4	41	14	1	1	J	5	51	5	1	1	J	P	1	300
1692		GUN TRAIN ORDER	23	4	41	14	2	1	J	5	51	5	2	1	J	P	1	300
1700		TRAIN RATE ORDER	23	4	41	8	2	1	C	5	51	2	2	1	C	P	1	300
1711		GUN ELEVATION POSITION	18	5	51	11	1	1	J	4	41	4	1	1	J	P	1	300
1712		GUN ELEVATION POSITION	18	5	51	11	2	1	J	4	41	4	2	1	J	P	1	300
1721		GUN TRAIN POSITION	18	5	51	11	3	1	J	4	41	4	3	1	J	P	1	300
1722		GUN TRAIN POSITION	18	5	51	11	4	1	J	4	41	4	4	1	J	P	1	300
1730		AMMO SELECT AAC	5	4	41	9	1	1	D	2	22	1	1	1	A	P	1	10
1740		AMMO SELECT APP	5	4	41	9	1	2	D	2	22	1	1	2	A	P	1	10
1750		AMMO SELECT COM	5	4	41	9	1	3	D	2	22	1	1	3	A	P	1	10
1760		AMMO SELECT CVT	5	4	41	9	1	4	D	2	22	1	1	4	A	P	1	10
1770		AMMO SELECT ILL	5	4	41	9	2	1	D	2	22	1	1	1	A	P	1	10
1780		AMMO SELECT PO	5	4	41	9	2	2	D	2	22	1	1	2	A	P	1	10
1790		AMMO SELECT RAP	5	4	41	9	2	3	D	2	22	1	1	3	A	P	1	10
1800		AMMO SELECT RED CHG	5	4	41	9	2	4	D	2	22	1	1	4	A	P	1	10
1810		AMMO SELECT STD CHG	5	4	41	9	3	1	D	2	22	1	1	1	A	P	1	10
1820		AMMO SELECT VT	5	4	41	9	3	2	D	2	22	1	1	2	A	P	1	10
1830		AMMO SELECT WP	5	4	41	9	3	3	D	2	22	1	1	3	A	P	1	10
1840		DIRECT CONTROL REQUEST	21	4	41	9	3	4	D	2	22	1	1	4	A	P	1	10
1850		FUZE SETTER RUN	21	4	41	9	4	1	D	2	22	1	1	1	A	P	1	10
1860		FUZE SETTER SAFE	21	4	41	9	4	2	D	2	22	1	1	2	A	P	1	10

10/29/79

SIGNAL TRACE TABLE

SIGNAL ID	SIGNAL NAME	MESSAGE NO.	RM	IOU	SLOT	CH	SBC	M	TYPE	RV	100	SLOT	CH	SBC	M	TYPE	UPDATE MODE	R	RATE	WORDS
1870	LOAD ORDER SINGLE	MT52	5	4	41	9	4	3	D	2	42	1	4	3	1	A	P	1	10	1
1871	LOAD ORDER CONTINUOUS	MT52	5	4	41	9	4	4	D	2	22	1	4	4	1	A	P	1	10	1
1880	GUN FIRED	MT52	14	2	22	10	1	1	D	4	41	1	1	1	1	A	P	1	10	1
1890	GUN IN STANDBY	MT52	14	2	22	10	1	2	D	4	41	1	1	2	1	A	P	1	10	1
1900	GUN READY TO FIRE	MT52	14	2	22	10	1	3	D	4	41	1	1	3	1	A	P	1	10	1
1901	GUN SYNCH	MT52	14	2	22	10	1	4	D	4	41	1	1	4	1	A	P	1	10	1
1911	GUN ELEVATION ORDER	MT52	7	5	52	5	1	1	J	2	22	4	3	1	1	J	P	1	300	1
1911E1	GUN ELEVATION ORDER	MT52	8	7	71	13	1	1	J	2	22	4	3	1	1	J	P	1	300	1
1912	GUN ELEVATION ORDER	MT52	7	5	52	5	2	1	J	2	22	4	4	1	1	J	P	1	300	1
1912E2	GUN ELEVATION ORDER	MT52	8	7	71	13	2	1	J	2	22	4	4	1	1	J	P	1	300	1
1913E1	GUN ELEVATION ORDER	MT52	19	7	71	13	1	1	M	4	42	7	4	1	1	J	P	1	300	1
1914E2	GUN ELEVATION ORDER	MT52	19	7	71	13	2	1	M	4	42	9	1	1	1	J	P	1	300	1
1920	ELEVATION RATE ORDER	MT52	6	5	52	4	1	1	C	2	22	3	1	1	1	C	P	1	300	1
1931E1	GUN TRAIN ORDER	MT52	7	5	52	5	3	1	J	2	22	6	1	1	1	J	P	1	300	1
1931E1	GUN TRAIN ORDER	MT52	8	7	71	13	3	1	J	2	22	6	1	1	1	J	P	1	300	1
1932E2	GUN TRAIN ORDER	MT52	7	5	52	5	4	1	J	2	22	6	2	1	1	J	P	1	300	1
1932E2	GUN TRAIN ORDER	MT52	8	7	71	13	4	1	J	2	22	6	2	1	1	J	P	1	300	1
1933E1	GUN TRAIN ORDER	MT52	19	7	71	13	3	1	M	4	42	9	2	1	1	J	P	1	300	1
1934E2	GUN TRAIN ORDER	MT52	19	7	71	13	4	1	M	4	42	9	3	1	1	J	P	1	300	1
1935E1	GUN ELEVATION POSITION	MT52	24	5	52	5	3	1	M	5	52	1	3	1	1	J	P	1	300	1
1935E1	GUN ELEVATION POSITION	MT52	20	2	22	11	1	1	J	5	52	1	3	1	1	J	P	1	300	1
1936E2	GUN ELEVATION POSITION	MT52	24	5	52	5	4	1	M	5	52	1	4	1	1	J	P	1	300	1
1937E1	GUN ELEVATION POSITION	MT52	20	2	22	11	2	1	J	5	52	1	4	1	1	J	P	1	300	1
1937E1	GUN ELEVATION POSITION	MT52	14	2	22	11	1	1	M	4	42	1	2	1	1	J	P	1	300	1
1938E2	GUN ELEVATION POSITION	MT52	14	2	22	11	2	1	M	4	42	1	3	1	1	J	P	1	300	1
1939E1	GUN TRAIN POSITION	MT52	20	2	22	11	3	1	J	5	52	1	1	1	1	J	P	1	300	1
1939E1	GUN TRAIN POSITION	MT52	24	5	52	6	1	1	J	5	52	1	1	1	1	J	P	1	300	1
1940E2	GUN TRAIN POSITION	MT52	20	2	22	11	4	1	J	5	52	1	2	1	1	J	P	1	300	1
1941E1	GUN TRAIN POSITION	MT52	24	5	52	6	2	1	J	5	52	1	2	1	1	J	P	1	300	1
1942E1	GUN TRAIN POSITION	MT52	14	2	22	11	3	1	M	4	42	1	4	1	1	J	P	1	300	1
1943E1	GUN TRAIN POSITION	MT52	11	2	22	11	3	1	M	4	42	3	1	1	1	J	P	1	300	1
1944E1	TRAIN RATE ORDER	MT52	6	5	52	4	2	1	C	2	22	3	3	1	1	C	P	1	300	1
1945E1	FOUR SET ORDER	MT52	6	5	52	6	2	1	M	4	42	6	3	1	1	J	P	1	300	1
1946E2	FOUR SET ORDER	MT52	6	5	52	6	2	1	M	4	42	6	4	1	1	J	P	1	300	1
1947E1	FOUR SET ORDER	MT52	19	7	71	14	1	1	J	4	42	9	4	1	1	J	P	1	300	1
1948E1	FOUR SET ORDER	MT52	19	7	71	14	2	1	J	4	42	11	1	1	1	J	P	1	300	1
1949E1	FOUR SET ORDER	MT52	32	1	11	4	1	1	D	8	81	1	1	1	1	A	P	1	10	1
1950E1	FOUR SET ORDER	MT52	32	1	11	4	1	2	D	8	81	1	1	2	1	A	P	1	10	1
1951E1	FOUR SET ORDER	MT52	32	1	11	4	1	3	D	8	81	6	1	1	1	G	P	1	10	1
1952E1	FOUR SET ORDER	MT52	32	1	11	4	1	4	D	8	81	6	1	2	1	G	P	1	10	1
1953E1	FOUR SET ORDER	MT52	32	1	11	4	2	1	D	8	81	6	1	3	1	G	P	1	10	1
1954E1	FOUR SET ORDER	MT52	32	1	11	4	2	2	D	8	81	6	1	4	1	G	P	1	10	1
1955E1	FOUR SET ORDER	MT52	32	1	11	4	2	3	D	8	81	6	2	1	1	G	P	1	10	1
1956E1	FOUR SET ORDER	MT52	32	1	11	4	2	4	D	8	81	6	2	2	1	G	P	1	10	1
1957E1	FOUR SET ORDER	MT52	32	1	11	4	3	1	D	8	81	6	2	3	1	G	P	1	10	1
1958E1	FOUR SET ORDER	MT52	32	1	11	4	3	2	D	8	81	6	2	4	1	G	P	1	10	1
1959E1	FOUR SET ORDER	MT52	32	1	11	4	3	3	D	8	81	6	3	1	1	G	P	1	10	1
1960E1	FOUR SET ORDER	MT52	32	1	11	4	3	4	D	8	81	6	3	2	1	G	P	1	10	1
1961E1	FOUR SET ORDER	MT52	32	1	11	4	4	1	D	8	81	6	3	3	1	G	P	1	10	1
1962E1	FOUR SET ORDER	MT52	32	1	11	4	4	2	D	8	81	6	3	4	1	G	P	1	10	1
1963E1	FOUR SET ORDER	MT52	32	1	11	4	4	3	D	8	81	6	3	1	1	G	P	1	10	1
1964E1	FOUR SET ORDER	MT52	32	1	11	4	4	4	D	8	81	6	3	2	1	G	P	1	10	1
1965E1	FOUR SET ORDER	MT52	32	1	11	4	4	5	D	8	81	6	3	3	1	G	P	1	10	1
1966E1	FOUR SET ORDER	MT52	32	1	11	4	4	6	D	8	81	6	3	4	1	G	P	1	10	1
1967E1	FOUR SET ORDER	MT52	32	1	11	4	5	1	A	8	81	6	1	1	1	S	P	1	10	1
1968E1	FOUR SET ORDER	MT52	36	6	61	9	2	2	A	8	81	6	2	1	1	S	P	1	10	1
1969E1	FOUR SET ORDER	MT52	36	6	61	9	2	3	A	8	81	6	3	1	1	S	P	1	10	1
1970E1	FOUR SET ORDER	MT52	36	6	61	9	2	4	A	8	81	6	4	1	1	S	P	1	10	1

APPENDIX K: INPUT/OUTPUT INSTALLATION AND WIRING LIST

INSTALLATION AND WIRING LIST

RM NUMBER	IOU/J-BOX NUMBER	RM LOCATION DECK FRAME TRANS	IOU/J-BOX LOCATION DECK FRAME TRANS	10U/J-BOX LOCATION DECK FRAME TRANS	3	138	-6
IOU SLOT NUMBER	ICM TYPE	I/O	SIGNAL ID	ION CHANNEL NUMBER	TERMINAL NUMBER STRIP GROUP PIN	LEAD NUMBER	CABLE DISTANCE
1	A	0	0040	1	1 1 -2	1 -2	62
1	A	0	0041	1	1 3 -4	1 -2	62
1	A	0	0030	2	1 1 -2	1 -2	83
2	U	0	0830	1	2 1 1 -7	1 -7	14
4	D	I	1980	1	4 1 1 -2	1 -2	128
4	D	I	1990	1	4 1 1 -2	1 -2	128
4	D	I	2000	1	4 1 5 -6	1 -2	149
4	D	I	2010	1	4 1 7 -8	1 -2	149
4	D	I	2020	2	4 2 1 -2	1 -2	149
4	D	I	2030	2	4 2 3 -4	1 -2	149
4	D	I	2040	2	4 2 5 -6	1 -2	149
4	D	I	2050	2	4 2 7 -8	1 -2	149
4	D	I	2060	3	4 3 1 -2	1 -2	149
4	D	I	2070	3	4 3 3 -4	1 -2	149
4	D	I	2080	3	4 3 5 -6	1 -2	149
4	D	I	2090	3	4 3 7 -8	1 -2	149
4	D	I	2100	4	4 4 1 -2	1 -2	149
4	D	I	2110	4	4 4 3 -4	1 -2	149
5	J	I	0761A1	1	5 1 1 -7	1 -7	20
			0771A1				
			0781A1				
			0791A1				
			0801A1				
			0811A1				
			0821A1				
5	J	I	0762A2	2	5 2 1 -7	1 -7	20

10/29/79

INSTALLATION AND WIRING LIST

RM NUMBER	IOU/J-BOX NUMBER	RM LOCATION DECK FRAME TRANS	IOU/J-BOX LOCATION DECK FRAME TRANS	LEAD NUMBER	CABLE DISTANCE	
2	21	3 383 -9	3 383 -9	3 383	-9	
IOU SLOT NUMBER	IOU TYPE	SIGNAL ID	ICM CHANNEL NUMBER	TERMINAL NUMBER STRIP GROUP PIN	LEAD NUMBER	CABLE DISTANCE
1	J	0	1	1 1 -7	1 -7	18
3	J	0830	1	3 1 1 -7	1 -7	16
3	J	0851B1	2	3 2 1 -7	1 -7	16
		0861B1				
3	J	0852B2	3	3 3 1 -7	1 -7	16
		0862B2				

10/29/79

INSTALLATION AND WIRING LIST

RM NUMBER	IOU J-BOX NUMBER	RM LOCATION DECK FRAME TRANS	IOU/J-BOX LOCATION DECK FRAME TRANS	2	482	0	
IOU SLOF NUMBER	ICM TYPE	I/O	SIGNAL ID	ION CHANNEL NUMBER	TERMINAL NUMBER STRIP GROUP PIN	LEAD NUMBER	CABLE DISTANCE
1	A	0	1730	1	1 1 -2	1 -2	17
1	A	0	1740	1	1 1 3 -4	1 -2	17
1	A	0	1750	1	1 1 5 -6	1 -2	17
1	A	0	1760	1	1 1 7 -8	1 -2	17
1	A	0	1770	2	1 2 1 -2	1 -2	17
1	A	0	1780	2	1 2 3 -4	1 -2	17
1	A	0	1790	2	1 2 5 -6	1 -2	17
1	A	0	1800	2	1 2 7 -8	1 -2	17
1	A	0	1810	3	1 3 1 -2	1 -2	17
1	A	0	1820	3	1 3 3 -4	1 -2	17
1	A	0	1830	3	1 3 5 -6	1 -2	17
1	A	0	1840	3	1 3 7 -8	1 -2	17
1	A	0	1850	4	1 4 1 -2	1 -2	17
1	A	0	1860	4	1 4 3 -4	1 -2	17
1	A	0	1870	4	1 4 5 -6	1 -2	17
1	A	0	1871	4	1 4 7 -8	1 -2	17
2	A	0	0210	1	2 1 1 -2	1 -2	10
3	C	0	1920	1	3 1 1 -3	1 -3	17
3	C	0	1950	2	3 2 1 -3	1 -3	17
4	J	0	0851B1	1	4 1 1 -7	1 -7	34
4	J	0	0852B2	2	4 2 1 -7	1 -7	34
4	J	0	1911	3	4 3 1 -7	1 -7	17
4	J	0	1911E1	4	4 4 1 -7	1 -7	17
4	J	0	1912	4	4 4 1 -7	1 -7	17
6	J	0	1912E2	1	6 1 1 -7	1 -7	17
6	J	0	1931F1	2	6 2 1 -7	1 -7	17
6	J	0	1931G1	3	6 3 1 -7	1 -7	17
6	J	0	1932F2	4	6 4 1 -7	1 -7	17
6	J	0	1932G2	5	6 5 1 -7	1 -7	17
5	J	0	1971J1	1	10 1 1 -2	1 -2	17
10	D	I	1880	1	10 1 3 -4	1 -2	17
10	D	I	1890	1	10 1 5 -6	1 -2	17
10	D	I	1900	1	10 1 7 -8	1 -2	17
10	D	I	1901	2	10 2 1 -2	1 -2	10
10	D	I	0160	2	10 2 3 -4	1 -2	10
10	D	I	0170	2	10 2 5 -6	1 -2	10
10	D	I	0180	1	11 1 1 -7	1 -7	17
11	J	I	1941H1	2	11 2 1 -7	1 -7	17
11	J	I	1943H1	3	11 3 1 -7	1 -7	17
11	J	I	1942H2	4	11 4 1 -7	1 -7	17
11	J	I	1944H2	1	11 1 1 -7	1 -7	17
11	J	I	1951I1	2	11 2 1 -7	1 -7	17
11	J	I	1953I1	3	11 3 1 -7	1 -7	17
11	J	I	1955I1	4	11 4 1 -7	1 -7	17
11	J	I	1952I2	5	11 5 1 -7	1 -7	17
11	J	I	1954I2				

INSTALLATION AND WIRING LIST

IOU/J-BOX LOCATION
DECK FRAME TRANS

RM LOCATION
DECK FRAME TRANS

-1

-9

23

2

IOU SLOT NUMBER	IOU TYPE	IOU ID	SIGNAL ID	IOU CHANNEL NUMBER	TERMINAL NUMBER STRIP GROUP PIN	LEAD NUMBER	CABLE DISTANCE
1	A	0	0220	1	1	1-2	34
1	A	0	0230	1	1	1-2	34
1	A	0	0240	1	1	1-2	34
1	A	0	0250	1	1	1-2	34
1	A	0	0260	2	1	1-2	34
1	A	0	0270	2	1	1-2	34
1	A	0	0280	2	1	1-2	34
1	A	0	0290	2	1	1-2	34
1	A	0	0300	3	1	1-2	34
1	A	0	0310	3	1	1-2	34
1	A	0	0320	3	1	1-2	34
1	A	0	0330	3	1	1-2	34
1	A	0	0340	4	1	1-2	34
1	A	0	0350	4	1	1-2	34
1	A	0	0360	4	1	1-2	34
1	A	0	0370	4	1	1-2	34
1	A	0	0380	4	1	1-2	34
2	A	0	0390	1	2	1-2	34
2	A	0	0400	1	2	1-2	34
2	A	0	0410	1	2	1-2	34
2	A	0	0420	2	2	1-2	34
2	A	0	0430	2	2	1-2	34
2	A	0	0440	2	2	1-2	34
2	A	0	0450	2	2	1-2	34
2	A	0	0460	2	2	1-2	34
2	A	0	0470	2	2	1-2	34
2	A	0	0480	3	3	1-2	34
2	A	0	0490	3	3	1-2	34
2	A	0	0500	3	3	1-2	34
2	A	0	0510	4	4	1-2	34
2	A	0	0520	4	4	1-2	34
2	A	0	0530	4	4	1-2	34
2	A	0	0540	4	4	1-2	34
2	A	0	0550	4	4	1-2	34
2	A	0	0560	4	4	1-2	34
2	A	0	0570	4	4	1-2	34
2	A	0	0580	4	4	1-2	34
2	A	0	0590	4	4	1-2	34
2	A	0	0600	4	4	1-2	34
2	A	0	0610	4	4	1-2	34
2	A	0	0620	4	4	1-2	34
2	A	0	0630	4	4	1-2	34
2	A	0	0640	4	4	1-2	34
2	A	0	0650	4	4	1-2	34
2	A	0	0660	4	4	1-2	34
2	A	0	0670	4	4	1-2	34

INSTALLATION AND WIRING LIST

RM NUMBER	ICU/J-BOX NUMBER	RM LOCATION DECK FRAME TRANS	ICU/J-BOX LOCATION DECK FRAME TRANS				
2	23	3 383	-9	3 382	-1		
ICU SLOT NUMBER	ICU TYPE	I/O	SIGNAL ID	ICM CHANNEL NUMBER	TERMINAL NUMBER STRIP GROUP PIN	LEAD NUMBER	CABLE DISTANCE
4	D	1	0660	3	4 3 3 -4	1 -2	34
4	D	1	0690	3	4 3 5 -6	1 -2	34
4	D	1	0700	3	4 3 7 -8	1 -2	34
4	D	1	0710	4	4 4 1 -2	1 -2	34
5	D	1	0660	1	5 1 1 -2	1 -2	47
5	D	1	0670	1	5 1 3 -4	1 -2	47
5	D	1	0680	1	5 1 5 -6	1 -2	47
5	D	1	0690	1	5 1 7 -8	1 -2	47
5	D	1	0100	2	5 2 1 -2	1 -2	47
5	D	1	0110	2	5 2 3 -4	1 -2	47
5	D	1	0120	2	5 2 5 -6	1 -2	47
5	D	1	0130	2	5 2 7 -8	1 -2	47
5	D	1	0140	3	5 3 1 -2	1 -2	47
5	D	1	0150	3	5 3 3 -4	1 -2	47

10/26/79

INSTALLATION AND WIRING LIST

RM NUMBER	IOU J-BOX NUMBER	RM LOCATION DECK FRAME TRANS	IOU/J-BOX LOCATION DECK FRAME TRANS	IOU SLOT NUMBER	IOU TYPE	I/O	SIGNAL ID	ION CHANNEL NUMBER	TERMINAL NUMBER STRIP GROUP PIN	LEAD NUMBER	CABLE DISTANCE
3	31	03 154 -14	03 154 -14								
				1	J	0	0761A1	1	1 1 -7	1 -7	28
				1	J	0	0762A2	2	1 1 -7	1 -7	28
				1	J	0	0861B1	3	1 1 -7	1 -7	28
				1	J	0	0862B2	4	1 1 -7	1 -7	28
				3	J	0	135511	1	1 1 -7	1 -7	28
				5	LT	0	0891C1	1	1 1 -7	1 -7	34
				7	LT	0	0892C2	1	1 1 -7	1 -7	34

INSTALLATION AND WIRING LIST

RM NUMBER IOU/J-BOX NUMBER RM LOCATION DECK FRAME TRANS IOU/J-BOX LOCATION DECK FRAME TRANS

CU SLOT NUMBER	ICM TYPE	I/O	SIGNAL ID	ICM CHANNEL NUMBER	TERMINAL NUMBER STRIP GROUP PIN	LEAD NUMBER	CABLE DISTANCE
1	A	D	1880	1	1 1-2	1-2	6
1	A	D	1890	1	1 3-4	1-2	6
1	A	D	1900	1	1 5-6	1-2	6
1	A	D	1901	1	1 7-8	1-2	6
1	A	D	0371	2	1 2 1-2	1-2	6
1	A	D	0372	2	1 2 3-4	1-2	6
1	A	D	0400	2	1 2 5-6	1-2	6
1	A	D	0410	2	1 2 7-8	1-2	6
1	A	D	0420	3	1 3 1-2	1-2	6
1	A	D	0430	3	1 3 3-4	1-2	6
1	A	D	0450	3	1 3 5-6	1-2	6
1	A	D	0460	3	1 3 7-8	1-2	6
1	A	D	0470	4	1 4 1-2	1-2	6
1	A	D	0480	4	1 4 3-4	1-2	6
1	A	D	0490	4	1 4 5-6	1-2	6
1	A	D	0500	4	1 4 7-8	1-2	6
2	A	D	0560	1	2 1 1-2	1-2	6
2	A	D	0561	1	2 1 3-4	1-2	6
2	A	D	0570	1	2 1 5-6	1-2	6
2	A	D	0580	1	2 1 7-8	1-2	6
2	A	D	0590	2	2 2 1-2	1-2	6
2	A	D	0600	2	2 2 3-4	1-2	6
2	A	D	0610	2	2 2 5-6	1-2	6
2	A	D	0620	2	2 2 7-8	1-2	6
2	A	D	0630	3	2 3 1-2	1-2	6
2	A	D	0640	3	2 3 3-4	1-2	6
2	A	D	0650	3	2 3 5-6	1-2	6
2	A	D	0660	3	2 3 7-8	1-2	6
2	A	D	0670	4	2 4 1-2	1-2	6
2	A	D	0680	4	2 4 3-4	1-2	6
2	A	D	0690	4	2 4 5-6	1-2	6
2	A	D	0700	4	2 4 7-8	1-2	6
3	A	D	0710	1	3 1 1-2	1-2	6
3	A	D	1630	2	3 2 1-2	1-2	6
3	A	D	1640	2	3 2 3-4	1-2	6
3	A	D	1650	2	3 2 5-6	1-2	6
3	A	D	1651	2	3 2 7-8	1-2	6
4	J	D	1711	1	4 1 1-7	1-7	6
4	J	D	1712	2	4 2 1-7	1-7	6
4	J	D	1721	3	4 3 1-7	1-7	6
4	J	D	1722	4	4 4 1-7	1-7	6
6	D	D	0720	1	6 1 1-73	1-73	6
7	B	I	1240	1	7 1 1-2	1-2	33
7	B	I	1250	1	7 1 3-4	1-2	33
8	C	I	1680	1	8 1 1-2	1-2	6
8	C	I	1700	2	8 2 1-2	1-2	6
9	D	I	1730	1	9 1 1-2	1-2	6
9	D	I	1740	1	9 1 3-4	1-2	6
9	D	I	1750	1	9 1 5-6	1-2	6

10/29/79

INSTALLATION AND WIRING LIST

RM NUMBER	IOU/JU-BOX NUMBER	RM LOCATION DECK FRAME TRANS	IOU/JU-BOX LOCATION DECK FRAME TRANS	01	156	0	
4	41	01	156	0	156	0	
IOU SLOT NUMBER	IOU TYPE	IOU I/O	SIGNAL ID	IOU CHANNEL NUMBER	TERMINAL NUMBER STRIP GROUP PIN	LEAD NUMBER	CABLE DISTANCE
9	D	I	1760	1	9 1 7 -8	1 -2	6
9	D	I	1770	2	9 2 1 -2	1 -2	6
9	D	I	1780	2	9 2 3 -4	1 -2	6
9	D	I	1790	2	9 2 5 -6	1 -2	6
9	D	I	1800	2	9 2 7 -8	1 -2	6
9	D	I	1810	3	9 3 1 -2	1 -2	6
9	D	I	1820	3	9 3 3 -4	1 -2	6
9	D	I	1830	3	9 3 5 -6	1 -2	6
9	D	I	1840	3	9 3 7 -8	1 -2	6
9	D	I	1850	4	9 4 1 -2	1 -2	6
9	D	I	1860	4	9 4 3 -4	1 -2	6
9	D	I	1870	4	9 4 5 -6	1 -2	6
9	D	I	1871	4	9 4 7 -8	1 -2	6
10	D	I	0220	1	10 1 1 -2	1 -2	6
10	D	I	0230	1	10 1 3 -4	1 -2	6
10	D	I	0240	1	10 1 5 -6	1 -2	6
10	D	I	0250	1	10 1 7 -8	1 -2	6
10	D	I	0260	2	10 2 1 -2	1 -2	6
10	D	I	0270	2	10 2 3 -4	1 -2	6
10	D	I	0280	2	10 2 5 -6	1 -2	6
10	D	I	0290	2	10 2 7 -8	1 -2	6
10	D	I	0300	3	10 3 1 -2	1 -2	6
10	D	I	0310	3	10 3 3 -4	1 -2	6
10	D	I	0320	3	10 3 5 -6	1 -2	6
10	D	I	0330	3	10 3 7 -8	1 -2	6
10	D	I	0340	4	10 4 1 -2	1 -2	6
10	D	I	0350	4	10 4 3 -4	1 -2	6
10	D	I	0360	4	10 4 5 -6	1 -2	6
10	D	I	0370	4	10 4 7 -8	1 -2	6
11	D	I	0380	1	11 1 1 -2	1 -2	6
11	D	I	0390	1	11 1 3 -4	1 -2	6
11	D	I	0400	1	11 1 5 -6	1 -2	6
11	D	I	0410	1	11 1 7 -8	1 -2	6
11	D	I	0420	2	11 2 1 -2	1 -2	6
11	D	I	0430	2	11 2 3 -4	1 -2	6
11	D	I	0440	2	11 2 5 -6	1 -2	6
11	D	I	0450	2	11 2 7 -8	1 -2	6
11	D	I	0460	2	11 2 9 -0	1 -2	6
11	D	I	1480	3	11 3 1 -2	1 -2	6
11	D	I	1490	3	11 3 3 -4	1 -2	6
11	D	I	1500	3	11 3 5 -6	1 -2	6
11	D	I	1510	3	11 3 7 -8	1 -2	6
11	D	I	1520	4	11 4 1 -2	1 -2	6
11	D	I	1530	4	11 4 3 -4	1 -2	6
11	D	I	1540	4	11 4 5 -6	1 -2	6
11	D	I	1550	4	11 4 7 -8	1 -2	6
12	D	I	1560	1	12 1 1 -2	1 -2	6
12	D	I	1570	1	12 1 3 -4	1 -2	6
12	D	I	1580	1	12 1 5 -6	1 -2	6
12	D	I	1590	1	12 1 7 -8	1 -2	6

INSTALLATION AND WIRING LIST

RM NUMBER	IOU J-BOX NUMBER	RM LOCATION DECK FRAME TRANS	IOU/J-BOX LOCATION DECK FRAME TRANS
4	41	01 156 0	01 156 0

IOU SLOT NUMBER	ION TYPE	I/O	SIGNAL ID	ION CHANNEL NUMBER	TERMINAL NUMBER STRIP GROUP PIN	LEAD NUMBER	CABLE DISTANCE
12	D	1	1600	2	12 2 1-2	1-2	6
12	D	1	1610	2	12 2 3-4	1-2	6
12	D	1	1620	2	12 2 5-6	1-2	6
12	D	1	1621	2	12 2 7-8	1-2	6
13	J	1	1661	1	13 1 1-7	1-7	6
13	J	1	1662	2	13 2 1-7	1-7	6
13	J	1	1671	3	13 3 1-7	1-7	6
13	J	1	1672	4	13 4 1-7	1-7	6
14	J	1	1691	1	14 1 1-7	1-7	6
14	J	1	1692	2	14 2 1-7	1-7	6
15	P	1	0730	1	15 1 1-73	1-73	6

INSTALLATION AND WIRING LIST

RM NUMBER	IOU J-BOX NUMBER	RM LOCATION DECK FRAME TRANS	IOU/J-BOX LOCATION DECK FRAME TRANS	LEAD NUMBER	CABLE DISTANCE		
4	42	01 156 0	01 156 0				
IOU SLOT NUMBER	IOU TYPE	IOU I/O	SIGNAL ID	IOU CHANNEL NUMBER	TERMINAL NUMBER STRIP GROUP PIN	LEAD NUMBER	CABLE DISTANCE
1	J	0	0801A1	1	1 1 -7	1 -7	7
1	J	0	1943H1	2	1 1 -7	1 -7	11
1	J	0	1944H2	3	1 1 -7	1 -7	11
1	J	0	1953I1	4	1 1 -7	1 -7	11
3	J	0	1954I2	1	1 1 -7	1 -7	11
3	J	0	0871C1	2	1 1 -7	1 -7	11
3	J	0	0872C2	3	1 1 -7	1 -7	11
3	J	0	0981	4	1 1 -7	1 -7	7
3	J	0	0982	1	1 1 -7	1 -7	7
3	J	0	0991	2	1 1 -7	1 -7	7
3	J	0	0992	3	1 1 -7	1 -7	7
3	J	0	1001	4	1 1 -7	1 -7	7
3	J	0	1002	1	1 1 -7	1 -7	7
3	J	0	1011	2	1 1 -7	1 -7	7
3	J	0	1012	3	1 1 -7	1 -7	7
3	J	0	1913E1	4	1 1 -7	1 -7	11
3	J	0	1914E2	1	1 1 -7	1 -7	11
3	J	0	1933G1	2	1 1 -7	1 -7	11
3	J	0	1934G2	3	1 1 -7	1 -7	11
3	J	0	1975	4	1 1 -7	1 -7	11
11	J	0	1976	1	1 1 -7	1 -7	11
13	J	1	0871C1	1	1 1 -7	1 -7	7
			0881C1				
			0891C1				
			0931C1				
13	J	1	0872C2	2	1 1 -7	1 -7	7
			0882C2				
			0892C2				
13	J	1	0981	3	1 1 -7	1 -7	7
13	J	1	0982	4	1 1 -7	1 -7	7
14	J	1	0991	1	1 1 -7	1 -7	7
14	J	1	0992	2	1 1 -7	1 -7	7
14	J	1	1001	3	1 1 -7	1 -7	7
14	J	1	1002	4	1 1 -7	1 -7	7
15	J	1	1011	1	1 1 -7	1 -7	7
15	J	1	1012	2	1 1 -7	1 -7	7
15	J	1	0841	3	1 1 -7	1 -7	11
15	J	1	0842	4	1 1 -7	1 -7	11
16	J	1	0941D1	1	1 1 -7	1 -7	7
			0951D1				
16	J	1	0942D2	2	1 1 -7	1 -7	7
16	J	1	0971	3	1 1 -7	1 -7	7
16	J	1	0972	4	1 1 -7	1 -7	7

INSTALLATION AND WIRING LIST

RM NUMBER IOU/J-BOX NUMBER

RM LOCATION
DECK FRAME TRANS

IOU/J-BOX LOCATION
DECK FRAME TRANS

IOU SLOT NUMBER	ICM TYPE	I/O	SIGNAL ID	IOM CHANNEL NUMBER	TERMINAL NUMBER STRIP GROUP PIN	LEAD NUMBER	CABLE DISTANCE
5	51			01 156	0	1 58	1
1	A	O	1480	1	1 1-2	1-2	28
1	A	O	1490	1	1 3-4	1-2	28
1	A	O	1500	1	1 5-6	1-2	28
1	A	O	1510	1	1 7-8	1-2	28
1	A	O	1520	2	1 1-2	1-2	28
1	A	O	1530	2	1 3-4	1-2	28
1	A	O	1540	2	1 5-6	1-2	28
1	A	O	1550	2	1 7-8	1-2	28
1	A	O	1560	3	1 1-2	1-2	28
1	A	O	1570	3	1 3-4	1-2	28
1	A	O	1580	3	1 5-6	1-2	28
1	A	O	1590	3	1 7-8	1-2	28
1	A	O	1600	4	1 1-2	1-2	28
1	A	O	1610	4	1 3-4	1-2	28
1	A	O	1620	4	1 5-6	1-2	28
1	A	O	1621	4	1 7-8	1-2	28
2	C	O	1680	2	2 1-3	1-3	28
2	C	O	1661	1	1 1-7	1-7	28
3	J	O	1662	2	3 1-7	1-7	28
3	J	O	1671	3	3 1-7	1-7	28
3	J	O	1672	4	3 1-7	1-7	28
5	J	O	1691	1	5 1-7	1-7	28
5	J	O	1692	2	5 1-7	1-7	28
5	J	O	0841	3	5 3-4	1-7	37
5	J	O	0842	4	5 4-7	1-7	37
7	J	O	0941D1	1	7 1-7	1-7	37
7	J	O	0342D2	2	7 2-4	1-7	37
7	J	O	0371	3	7 3-4	1-7	37
7	J	O	0372	4	7 4-7	1-7	37
9	P	O	0730	1	9 1-73	1-73	52
10	D	I	1630	1	10 1-2	1-2	28
10	D	I	1640	1	10 3-4	1-2	28
10	D	I	1650	1	10 5-6	1-2	28
10	D	I	1651	1	10 7-8	1-2	28
10	D	I	1220	2	10 2-4	1-2	52
10	D	I	1230	2	10 3-4	1-2	52
10	D	I	1120X1	3	10 3-4	1-2	52
10	D	I	1121X1	3	10 3-4	1-2	52
10	D	I	1160X2	3	10 3-4	1-2	52
10	D	I	1161X2	3	10 3-4	1-2	52
10	D	I	1170X3	3	10 3-4	1-2	52
10	D	I	1171X3	3	10 3-4	1-2	52
10	D	I	1180X4	3	10 3-4	1-2	52
10	D	I	1181X4	3	10 3-4	1-2	52
10	D	I	1190X5	4	10 4-7	1-2	52
10	D	I	1191X5	4	10 4-7	1-2	52
10	D	I	1210X6	4	10 4-7	1-2	52
10	D	I	1211X6	4	10 4-7	1-2	52

10/29/79

INSTALLATION AND WIRING LIST

RM NUMBER	IOU/J-BOX NUMBER	RM LOCATION DECK FRAME TRANS	IOU/J-BOX LOCATION DECK FRAME TRANS
5	51	01 156 0	1 58 1

IOU SLOT NUMBER	ICM TYPE	I/O	SIGNAL ID	ICM CHANNEL NUMBER	TERMINAL NUMBER STRIP GROUP PIN	LEAD NUMBER	CABLE DISTANCE
11	J	I	1711	1	1 1-7	1-7	28
11	J	I	1712	2	1 1-7	1-7	28
11	J	I	1721	3	1 1-7	1-7	28
11	J	I	1722	4	1 1-7	1-7	28
12	P	I	0720	1	1 1-73	1-73	52

10/29/79

INSTALLATION AND WIRING LIST

RM NUMBER	IOU/J-BOX NUMBER	RM LOCATION DECK FRAME TRANS	IOU/J-BOX LOCATION DECK FRAME TRANS				
5	52	01 156	0	01 156	0		
IOU SLOT NUMBER	IOU TYPE	ICM I/O	SIGNAL ID	ION CHANNEL NUMBER	TERMINAL STRIP GROUP	NUMBER PIN	CABLE DISTANCE
1	J	0	1951I1	1	1	1 -7	7
1	J	0	1951J1	2	1	1 -7	7
1	J	0	1952J2	3	1	1 -7	7
1	J	0	1941F1	4	1	1 -7	7
1	J	0	1941H1	1	1	1 -7	7
1	J	0	1942F2	1	1	1 -7	7
3	C	0	1942H2	1	3	1 -73	13
4	C	I	1920	1	4	1 -2	7
4	C	I	1960	2	4	1 -2	7
5	J	I	1911	1	5	1 -7	7
5	J	I	1912	2	5	1 -7	7
5	J	I	1931F1	3	5	1 -7	7
5	J	I	1941F1	4	5	1 -7	7
5	J	I	1932F2	4	5	1 -7	7
6	J	I	1942F2	1	6	1 -7	7
6	J	I	1951J1	2	6	1 -7	7
6	J	I	1952J2	2	6	1 -7	7
7	P	I	1972J2	1	7	1 -73	13
			0750				

RM NUMBER	IOU/J-BOX NUMBER	RM LOCATION DECK FRAME TRANS	IOU/J-BOX LOCATION DECK FRAME TRANS	61	02	174	-2	02	174	-2	LEAD NUMBER	CABLE DISTANCE
6												
1	A	1040	1	1	1	1	1	1	1	1	1-2	24
1	A	1050	1	1	1	1	1	1	1	1	1-2	24
1	A	1060	1	1	1	1	1	1	1	1	1-2	24
1	A	1070	1	1	1	1	1	1	1	1	1-2	24
2	O	1080	1	2	1	1	1	1	1	1	1-2	24
3	O	1121X1	1	3	1	1	1	1	1	1	1-2	28
3	O	1161X2	1	3	1	1	1	1	1	1	1-2	28
3	O	1171X3	1	3	1	1	1	1	1	1	1-2	28
3	O	1181X4	1	3	1	1	1	1	1	1	1-2	28
3	O	1191X5	2	3	1	1	1	1	1	1	1-2	28
3	O	1211X6	2	3	1	1	1	1	1	1	1-2	28
3	O	1220	2	3	1	1	1	1	1	1	1-2	28
3	O	1230	2	3	1	1	1	1	1	1	1-2	28
3	O	1350	3	3	1	1	1	1	1	1	1-2	37
3	O	1400	3	3	1	1	1	1	1	1	1-2	37
4	O	0781A1	1	4	1	1	1	1	1	1	1-7	36
4	O	0791A1	2	4	1	1	1	1	1	1	1-7	41
4	O	0821A1	3	4	1	1	1	1	1	1	1-7	36
6	LT	0811A1	1	6	1	1	1	1	1	1	1-7	27
8	P	0750	1	8	1	1	1	1	1	1	1-73	4
9	A	1020	1	9	1	1	1	1	1	1	1-2	24
9	A	1030	1	9	1	1	1	1	1	1	1-2	24
9	A	2121	2	9	1	1	1	1	1	1	1-2	37
9	A	2122	2	9	1	1	1	1	1	1	1-2	37
9	A	2131	2	9	1	1	1	1	1	1	1-2	37
9	A	2132	2	9	1	1	1	1	1	1	1-2	37
10	D	1280	1	10	1	1	1	1	1	1	1-2	37
10	D	1290	1	10	1	1	1	1	1	1	1-2	37
10	D	1300	1	10	1	1	1	1	1	1	1-2	37
10	D	1310	1	10	1	1	1	1	1	1	1-2	37
10	D	1320	2	10	1	1	1	1	1	1	1-2	37
10	D	1330	2	10	1	1	1	1	1	1	1-2	37
10	D	1340	2	10	1	1	1	1	1	1	1-2	37
10	D	1360	2	10	1	1	1	1	1	1	1-2	37
10	D	1370	3	10	1	1	1	1	1	1	1-2	37
10	D	1380	3	10	1	1	1	1	1	1	1-2	37
10	D	1390	3	10	1	1	1	1	1	1	1-2	37
10	D	1410	3	10	1	1	1	1	1	1	1-2	37
10	D	1420	4	10	1	1	1	1	1	1	1-2	37
10	D	1421	4	10	1	1	1	1	1	1	1-2	37
10	D	1430	4	10	1	1	1	1	1	1	1-2	37
10	D	1440	4	10	1	1	1	1	1	1	1-2	37
11	P	0740	1	11	1	1	1	1	1	1	1-73	4

10/29/79

INSTALLATION AND WIRING LIST

RM NUMBER	IOU/J-BOX NUMBER	RM LOCATION DECK FRAME TRANS	IOU/J-BOX LOCATION DECK FRAME TRANS				
7	71	01 205	01 205	1			
IOU SLOT NUMBER	IOU TYPE	I/O	SIGNAL ID	IOU CHANNEL NUMBER	TERMINAL NUMBER STRIP GROUP PIN	LEAD NUMBER	CABLE DISTANCE
1	D	0	1020	1	1 1-2	1-2	25
1	D	0	1030	1	1 3-4	1-2	25
2	G	0	1280	1	2 1-2	1-2	58
2	G	0	1290	1	2 3-4	1-2	58
2	G	0	1300	1	2 5-6	1-2	58
2	G	0	1310	1	2 7-8	1-2	58
2	G	0	1320	2	2 1-2	1-2	58
2	G	0	1330	2	2 3-4	1-2	58
2	G	0	1340	2	2 5-6	1-2	58
2	G	0	1360	2	2 7-8	1-2	58
2	G	0	1370	3	3 1-2	1-2	58
2	G	0	1380	3	3 3-4	1-2	58
2	G	0	1390	3	3 5-6	1-2	58
2	G	0	1410	3	3 7-8	1-2	58
2	G	0	1420	4	4 1-2	1-2	58
2	G	0	1421	4	4 3-4	1-2	58
2	G	0	1430	4	4 5-6	1-2	58
2	G	0	1440	4	4 7-8	1-2	58
3	LT	0	0881C1	1	1 1-7	1-7	25
5	LT	0	0862C2	1	1 1-7	1-7	25
7	LT	0	0931C1	1	1 1-7	1-7	153
9	LT	0	0951D1	1	1 1-7	1-7	25
11	B	1	1090	1	1 1-2	1-2	68
11	B	1	1091	1	1 3-4	1-2	88
11	B	1	1092	2	2 1-2	1-2	147
11	B	1	1260	2	2 3-4	1-2	5
11	B	1	1270	3	3 1-2	1-2	5
12	D	1	1040	1	1 1-2	1-2	25
12	D	1	1050	1	1 3-4	1-2	25
12	D	1	1060	1	1 5-6	1-2	25
12	D	1	1070	1	1 7-8	1-2	25
12	D	1	1060	2	2 1-2	1-2	25
12	D	1	1350	2	2 3-4	1-2	58
12	D	1	1400	2	2 5-6	1-2	58
13	J	1	1911E1	1	1 1-7	1-7	153
			1913E1				
13	J	1	1912E2	2	2 1-7	1-7	153
			1914E2				
13	J	1	1931G1	3	3 1-7	1-7	153
			1933G1				
13	J	1	1932G2	4	4 1-7	1-7	153
			1934G2				
14	J	1	1975	1	1 1-7	1-7	153
14	J	1	1976	2	2 1-7	1-7	153

INSTALLATION AND WIRING LIST

RM NUMBER	IOU/J-BOX NUMBER	RM LOCATION DECK FRAME TRANS	IOU/J-BOX LOCATION DECK FRAME TRANS	81	2	300	0	2	300	0
IOU SLOT NUMBER	IOU TYPE	I/O	SIGNAL ID	ICM NUMBER	TERMINAL NUMBER STRIP GROUP PIN	LEAD NUMBER	CABLE DISTANCE			
1	A	O	1920	1	1 1 -2	1 -2	16			
1	A	O	1940	1	1 3 -4	1 -2	16			
1	A	O	0160	2	1 1 -2	1 -2	26			
1	A	O	0170	2	1 2 3 -4	1 -2	26			
1	A	O	0180	2	1 2 5 -6	1 -2	26			
1	A	O	0060	3	1 3 1 -2	1 -2	26			
1	A	O	0070	3	1 3 3 -4	1 -2	26			
1	A	O	0080	3	1 3 5 -6	1 -2	26			
1	A	O	0090	3	1 3 7 -8	1 -2	26			
1	A	O	0100	4	1 4 1 -2	1 -2	26			
1	A	O	0110	4	1 4 3 -4	1 -2	26			
1	A	O	0120	4	1 4 5 -6	1 -2	26			
1	A	O	0130	4	1 4 7 -8	1 -2	26			
2	A	O	0140	1	2 1 1 -2	1 -2	26			
2	A	O	0150	1	2 1 3 -4	1 -2	26			
3	B	O	1240	1	3 1 1 -2	1 -2	25			
3	B	O	1250	1	3 1 3 -4	1 -2	25			
3	B	O	1090	2	3 2 1 -2	1 -2	25			
3	B	O	1091	2	3 2 3 -4	1 -2	25			
3	B	O	1092	3	3 3 1 -2	1 -2	25			
3	B	O	1260	3	3 3 3 -4	1 -2	25			
3	B	O	1270	4	3 3 4 1 -2	1 -2	25			
4	B	O	1100	1	4 1 1 -2	1 -2	25			
4	B	O	1101	1	4 1 3 -4	1 -2	25			
4	B	O	1102	2	4 2 1 -2	1 -2	25			
4	B	O	1103	2	4 2 3 -4	1 -2	25			
4	B	O	1104	3	4 3 1 -2	1 -2	25			
4	B	O	1105	3	4 3 3 -4	1 -2	25			
4	B	O	1106	4	4 4 1 -2	1 -2	25			
4	B	O	1107	4	4 4 3 -4	1 -2	25			
5	B	O	1110	1	5 1 1 -2	1 -2	25			
5	B	O	1111	1	5 1 3 -4	1 -2	25			
5	B	O	1112	2	5 2 1 -2	1 -2	25			
5	B	O	1113	2	5 2 3 -4	1 -2	25			
5	B	O	1114	3	5 3 1 -2	1 -2	25			
5	B	O	1115	3	5 3 3 -4	1 -2	25			
5	B	O	1116	4	5 4 1 -2	1 -2	25			
5	B	O	1117	4	5 4 3 -4	1 -2	25			
6	G	O	2000	1	6 1 1 -2	1 -2	41			
6	G	O	2010	1	6 1 3 -4	1 -2	41			
6	G	O	2020	1	6 1 5 -6	1 -2	41			
6	G	O	2030	1	6 1 7 -8	1 -2	41			
6	G	O	2040	2	6 2 1 -2	1 -2	41			
6	G	O	2050	2	6 2 3 -4	1 -2	41			
6	G	O	2060	2	6 2 5 -6	1 -2	41			
6	G	O	2070	2	6 2 7 -8	1 -2	41			
6	G	O	2080	3	6 3 1 -2	1 -2	41			
6	G	O	2090	3	6 3 3 -4	1 -2	41			
6	G	O	2100	3	6 3 5 -6	1 -2	41			

RM NUMBER	IOU/J-BOX NUMBER	RM LOCATION DECK FRAME TRANS	IOU/J-BOX LOCATION DECK FRAME TRANS									
8	81	2	300	0	2	300	0	2	300	0		
IOU SLOT NUMBER	IOU TYPE	IOU I/O	SIGNAL ID	IOU CHANNEL NUMBER	TERMINAL NUMBER STRIP GROUP PIN	LEAD NUMBER	CABLE DISTANCE					
6	G	0	2110	3	6	3	7-8					
6	G	0	1120X1	4	6	4	1-2					
6	G	0	1160X2	4	6	4	3-4					
6	G	0	1170X3	4	6	4	5-6					
6	G	0	1180X4	4	6	4	7-8					
7	G	0	1190X5	1	7	1	1-2					
7	G	0	1210X6	1	7	1	3-4					
8	S	0	2121	1	8	1	1-2					
8	S	0	2122	2	8	2	1-2					
8	S	0	2131	3	8	3	1-2					
8	S	0	2132	4	8	4	1-2					
9	D	I	0040	1	9	1	1-2					
9	D	I	0041	1	9	1	3-4					
9	D	I	0210	2	9	2	1-2					
9	D	I	0050	3	9	3	1-2					

RM NUMBER	IOU/J-BOX NUMBER	RM LOCATION DECK FRAME TRANS	IOU/J-BOX LOCATION DECK FRAME TRANS	5	308	27	
8	82	2	300	0			
IOU SLOT NUMBER	IOU TYPE	I/O	SIGNAL ID	ION CHANNEL NUMBER	TERMINAL NUMBER STRIP GROUP PIN	LEAD NUMBER	CABLE DISTANCE
1	A	D	0050	1	1 1-2	1-2	34
1	A	O	0010	2	1 1-2	1-2	58
1	A	O	0020	2	1 3-4	1-2	58
2	B	I	1100	1	1 1-2	1-2	74
2	B	I	1101	1	1 3-4	1-2	74
2	B	I	1102	2	2 1-2	1-2	74
2	B	I	1103	2	2 3-4	1-2	74
2	B	I	1104	3	3 1-2	1-2	74
2	B	I	1105	3	3 3-4	1-2	74
2	B	I	1106	4	4 1-2	1-2	74
2	B	I	1107	4	4 3-4	1-2	74
3	B	I	1110	1	1 1-2	1-2	74
3	B	I	1111	1	1 3-4	1-2	74
3	B	I	1112	2	2 1-2	1-2	74
3	B	I	1113	2	2 3-4	1-2	74
3	B	I	1114	3	3 1-2	1-2	74
3	B	I	1115	3	3 3-4	1-2	74
3	B	I	1116	4	4 1-2	1-2	74
3	B	I	1117	4	4 3-4	1-2	74
4	D	I	0030	1	1 1-2	1-2	75
4	D	I	0010	2	2 1-2	1-2	70
4	D	I	0020	2	2 3-4	1-2	68

APPENDIX L: INPUT/OUTPUT MODULE COUNT AND SPARE CAPACITY

10/29/79

OUTPUT IOM COUNT BY TYPE

SUBZONE	A	B	C	D	G	J	LT	L	M	P	S
11	1	0	0	0	0	1	0	0	0	0	0
21	0	0	0	0	0	1	0	0	0	0	0
22	2	0	1	0	0	3	0	0	0	0	0
23	2	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	2	2	0	0	0	0
41	3	0	0	0	0	1	0	0	0	1	0
42	0	0	0	0	0	6	0	0	0	0	0
51	1	0	1	0	0	3	0	0	0	1	0
52	0	0	0	0	0	1	0	0	0	1	0
61	1	0	0	1	1	1	1	0	0	1	0
71	0	0	0	1	1	0	4	0	0	0	0
81	2	3	0	0	2	0	0	0	0	0	1
82	1	0	0	0	0	0	0	0	0	0	0
991	0	0	0	0	0	0	0	0	0	0	0
992	0	0	0	0	0	0	0	0	0	0	0
TOTAL	13	3	2	2	4	19	7	0	0	4	1

10/29/79

SPARE SIGNAL CAPACITY BY IOM TYPE

SUBZONE	A	B	C	D	G	J	LT	L	M	P	S
11	13	0	0	0	0	3	0	0	0	0	0
21	0	0	0	0	0	3	0	0	0	0	0
22	15	0	6	0	0	2	0	0	0	0	0
23	8	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	3	0	0	0	0	0
41	11	0	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	3	0	0	0	0	0
51	0	0	6	0	0	0	0	0	0	0	0
52	0	0	0	0	0	0	0	0	0	0	0
61	12	0	0	15	6	1	0	0	0	0	0
71	0	0	0	14	0	0	0	0	0	0	0
81	17	1	0	0	14	0	0	0	0	0	12
92	13	0	0	0	0	0	0	0	0	0	0
991	0	0	0	0	0	0	0	0	0	0	0
992	0	0	0	0	0	0	0	0	0	0	0
TOTAL	89	1	12	29	20	15	0	0	0	0	12

10/29/79

INPUT IOM COUNT BY TYPE

SUBZONE	A	B	C	D	J	M	P	T
11	0	0	0	1	1	0	0	0
21	0	0	0	1	1	0	0	0
22	0	0	0	1	1	0	0	0
23	0	0	0	3	0	0	0	0
31	0	0	0	0	0	0	0	0
41	0	0	1	4	2	0	1	0
42	0	0	0	0	1	0	0	0
51	0	0	0	1	1	0	1	0
52	0	0	1	0	2	0	1	0
61	1	0	0	1	0	0	1	0
71	0	0	1	1	2	0	0	0
81	0	0	0	1	0	0	0	0
82	0	2	0	1	0	0	0	0
991	0	0	0	0	0	0	0	0
992	0	0	0	0	0	0	0	0
TOTAL	1	4	2	14	14	0	4	0

10/29/79

INPUT SPARE SIGNAL CAPACITY BY IOM TYPE

SUBZONE	A	B	C	D	J	M	P	T
11	0	0	0	2	2	0	0	0
21	0	0	0	0	1	0	0	0
22	0	0	0	9	0	0	0	0
23	0	0	0	9	0	0	0	0
31	0	0	0	0	0	0	0	0
41	0	6	6	8	2	0	0	0
42	0	0	0	0	0	0	0	0
51	0	0	0	4	0	0	0	0
52	0	0	6	0	2	0	0	0
61	10	0	0	0	0	0	0	0
71	0	3	0	9	0	0	0	0
81	0	0	0	12	0	0	0	0
82	0	0	0	13	0	0	0	0
991	0	0	0	0	0	0	0	0
992	0	0	0	0	0	0	0	0
TOTAL	10	9	12	66	9	0	0	0

APPENDIX M: REMOTE MULTIPLEXER CONFIGURATIONS

FORM CONFIGURATION

RM NUMBER	PRGM POSITION NUMBER	MESSAGE NUMBER	SOURCE	SINK	UPDATE MODE	PRIORITY	OTHER RM	UPDATE RATE	DATA WORDS
1	0	3	X		P	1	2	5 10	1
	1	10	X		P	1	3	0 10	2
	2	13	X		P	1	4	7 10	1
	3	26	X		P	1	6	3 10	1
	4	32	X		P	1	8	2 10	4
	5	1		X	P	1	2	0 10	1
	6	2		X	P	1	8	0 10	2
	TOTAL PROMS FOR RM= 7								

ARM CONFIGURATION

RY NUMBER	2	FROM POSITION NUMBER	MESSAGE NUMBER	SOURCE	SINK	UPDATE MODE	PRIORITY	OTHER RM	PROG	UPDATE RATE	DATA WORDS
		0	1	X		P	1	1	S	10	1
		1	11	X		P	1	3	1	300	3
		2	14	X		P	1	4	8	300	13
		3	20	X		P	1	5	9	300	4
		4	31	X		P	1	8	3	10	4
		5	3		X	P	1	1	0	10	1
		6	4		X	P	1	2	6	10	2
		7	5		X	P	1	4	0	10	10
		8	6		X	P	1	5	0	300	4
		9	7		X	P	1	5	1	300	4
		10	8		X	P	1	7	0	300	4
		11	9		X	P	1	8	1	10	1
RATE RATE = 1875 (MSGS/SEC)											TOTAL PROMS FOR RM=12

AD-A178 009

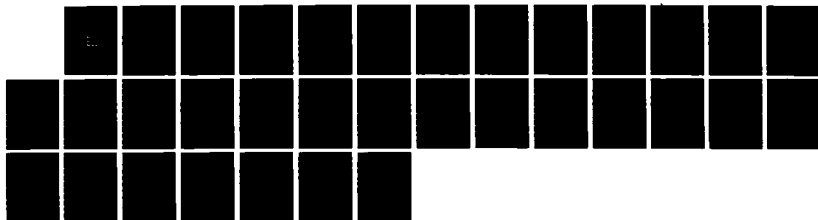
SDMS (SHIPBOARD DATA MULTIPLEX SYSTEM) DD 963 SIGNAL
LIST DD 963 CLASS SH. (U) NAVAL OCEAN SYSTEMS CENTER
SAN DIEGO CA J D DICKINSON NOV 79 NOSC/TD-292

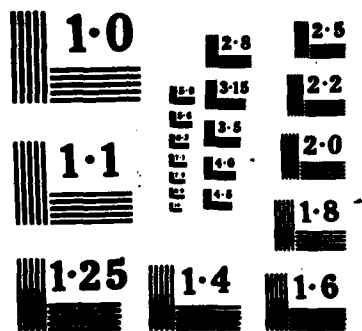
2/2

UNCLASSIFIED

F/G 17/2

NL





10/29/79

RM CONFIGURATION

RM NUMBER 3

PROM POSITION NUMBER	MESSAGE NUMBER	SOURCE	SINK	UPDATE MODE	PRIORITY	OTHER RM	PHCM	UPDATE RATE	DATA WORDS
0	10		X	P	1	1	1	10	2
1	11		X	P	1	2	1	300	3
2	12		X	P	1	4	1	10	2

RM UPDATE RATE = 320 (MSG/SEC)

TOTAL PROMS FOR RM= 3

10/29/79

RM CONFIGURATION

RM NUMBER 4

PROM POSITION NUMBER	MESSAGE NUMBER	SOURCE	SINK	UPDATE MODE	PRIORITY	OTHER RM	PROM	UPDATE RATE	DATA WORDS
0	5	X		P	1	2	7	10	10
1	12	X		P	1	3	2	10	2
2	21	X		P	1	5	9	10	10
3	22	X		P	1	5	10	40	50
4	23	X		P	1	5	11	300	8
5	30	X		P	1	7	4	300	4
6	34	X		P	1	8	4	40	1
7	13		X	P	1	1	2	10	1
8	14		X	P	1	2	2	300	13
9	15		X	P	1	4	9	300	10
11	16		X	P	1	5	2	10	1
12	17		X	P	1	5	3	40	50
13	18		X	P	1	5	4	300	4
14	19		X	P	1	7	1	300	6

RM UPDATE RATE = 2270 (MSG/SEC)

TOTAL PROMS FOR RM=15

10/29/79

RM CONFIGURATION

RM NUMBER	PROM POSITION NUMBER	MESSAGE NUMBER	SOURCE	SINK	UPDATE MODE	PRIORITY	OTHER RM	PROM RATE	UPDATE RATE	DATA WORDS
5	0	6	X		P	1	2	8	300	4
	1	7	X		P	1	2	9	300	4
	2	16	X		P	1	4	11	10	1
	3	17	X		P	1	4	12	40	50
	4	18	X		P	1	4	13	300	4
	5	27	X		P	1	6	4	10	2
	6	28	X		P	1	6	5	40	50
	7	35	X		P	1	8	5	10	2
	8	20		X	P	1	2	3	300	4
	9	21		X	P	1	4	2	10	10
	10	22		X	P	1	4	3	40	50
	11	23		X	P	1	4	4	300	8
	12	24		X	P	1	5	12	300	4
	13	25		X	P	1	6	0	40	50

RM UPDATE RATE = 2300 (MSG/SEC)

TOTAL PROMS FOR RM=14

96

10/29/79

RM CONFIGURATION

RM NUMBER	PROM POSITION NUMBER	MESSAGE NUMBER	SOURCE	SINK	UPDATE MODE	PRIORITY	OTHER RM	PROM RATE	UPDATE RATE	DATA WORDS
6	0	25	X		P	1	5	13	40	50
	1	31	X		P	1	7	5	10	5
	2	36	X		P	1	8	6	10	4
	3	26		X	P	1	1	3	10	4
	4	27		X	P	1	5	5	10	2
	5	28		X	P	1	5	6	40	50
	6	29		X	P	1	7	2	10	3

RM UPDATE RATE = 130 (MSG/SEC)

TOTAL PROMS FOR RM= 7

10/29/79

RM CONFIGURATION

RM NUMBER 7

PROM POSITION NUMBER	MESSAGE NUMBER	SOURCE	SINK	UPDATE MODE	PRIORITY	OTHER RM	PROM RATE	UPDATE RATE	DATA WORDS
0	8	X		P	1	2	10	300	4
1	19	X		P	1	4	14	300	6
2	29	X		P	1	6	6	10	3
3	37	X		P	1	8	7	40	3
4	30		X	P	1	4	5	300	4
5	31		X	P	1	6	1	10	5

RM UPDATE RATE = 960 (MSG/SEC)

TOTAL PROMS FOR RM= 6

10/29/79

RM CONFIGURATION

RM NUMBER 8

PROM POSITION NUMBER	MESSAGE NUMBER	SOURCE	SINK	UPDATE MODE	PRIORITY	OTHER RM	PROM RATE	UPDATE RATE	DATA WORDS
0	2	X		P	1	1	6	10	2
1	9	X		P	1	2	11	10	1
2	32			P	1	1	4	10	4
3	33		X	P	1	2	4	10	4
4	34		X	P	1	4	6	40	1
5	35		X	P	1	5	7	10	2
6	36		X	P	1	6	2	10	4
7	37		X	P	1	7	3	40	3
8	38		X	P	1	8	8	40	10

RM UPDATE RATE = 220 (MSG/SEC)

TOTAL PROMS FOR RM=10

TOTAL NUMBER OF PROMS REQUIRED= 74

**APPENDIX N: REMOTE MULTIPLEXER AND INPUT/OUTPUT UNIT SUMMARIES
BY ZONE AND SUBZONE**

SUMMARY FOR ZONE 10

10/29/79

PAGE 1

RM NUMBER 1
 NUMBER OF PROMS 7
 NUMBER OF IOUS 1

RM LOCATION
 DECK 3
 FRAME 127
 TRANSVERSE 6

	INPUT	OUTPUT	TOTAL	--CAPACITY
NUMBER OF SIGNALS	22	4	26	
NUMBER OF MESSAGES	5	2	7	
MESSAGE RATE, HZ	50	20	70	
DATA RATE, BPS	1920	480	2400	0.12

SUBZONE

1

IOU

11

LOCATION: DECK
 FRAME
 TRANSVERSE

3
 138
 -6

TOTAL INPUT SIGNALS
 TOTAL OUTPUT SIGNALS
 TOTAL SIGNALS

22
 4
 26

TOTAL INPUT MODULES
 TOTAL OUTPUT MODULES
 TOTAL MODULES

2
 2
 4

TOTAL SLOTS USED

5

TOTAL POWER REQUIRED

0.0

SUMMARY FOR ZONE 10 (CONTINUED)

10/29/79

PAGE 2

RM NUMBER 1

SUBZONE

1

IOU

11

INPUT_MODULE_TYPES

D DISCRETE INPUT, ISOLATED, VOLTAGE LEVEL
J SYNCHRO INPUT, 4 CHANNEL

1
1

OUTPUT_MODULE_TYPES

A DISCRETE OUTPUT, ISOL., SWITCH CLOSURE, DC
J SYNCHRO OUTPUT, DUAL/SINGLE SPEED, 400 HZ

1
1

SUMMARY FOR ZONE 20

10/29/79

PAGE 3

RM NUMBER 2
NUMBER OF PROMS 12
NUMBER OF IOUS 3

DECK 3
RM LOCATION
FRAME 383
TRANVERSE -9

NUMBER OF SIGNALS
NUMBER OF MESSAGES
MESSAGE RATE, HZ
DATA RATE, BPS

INPUT
60
6
930
97120

OUTPUT
56
7
940
59840

TOTAL
116
13
1870
156960

---CAPACITY

8.17

SUBZONE

1 2 3

IOU

21 22 23

LOCATION: DECK
FRAME
TRANVERSE

3 2 3
383 482 382
-9 0 -1

TOTAL INPUT SIGNALS
TOTAL OUTPUT SIGNALS
TOTAL SIGNALS

5 16 39
1 31 24
6 47 63

TOTAL INPUT MODULES
TOTAL OUTPUT MODULES
TOTAL MODULES

1 2 3
1 6 2
2 8 5

TOTAL SLOTS USED

3 11 5

TOTAL POWER REQUIRED

0.0 0.0 0.0

SUMMARY FOR ZONE 20 (CONTINUED)

10/29/79

PAGE 4

RM NUMBER 2

SUBZONE

3

INPUT_MODULE_TYPES

10U

23

D DISCRETE INPUT, ISOLATED, VOLTAGE LEVEL

0

1

3

J SYNCHRO INPUT, 4 CHANNEL

1

1

0

OUTPUT_MODULE_TYPES

A DISCRETE OUTPUT, ISOL., SWITCH CLOSURE, DC

0

2

2

C DC ANALOG OUTPUT, LOW RESOLUTION

0

1

0

J SYNCHRO OUTPUT, DUAL/SINGLE SPEED, 400 HZ

1

3

0

RM NUMBER	3	RM LOCATION	
NUMBER OF PROMS	3	DECK	03
NUMBER OF IOUS	1	FRAME	154
		TRANSVERSE	-14
NUMBER OF SIGNALS	0	TOTAL	7
NUMBER OF MESSAGES	0	OUTPUT	7
MESSAGE RATE, HZ	0		3
DATA RATE, BPS	0		320
			15040
		__CAPACITY	0.78

SUBZONE 1

IOU 31

LOCATION: DECK 03
FRAME 154
TRANSVERSE -14

TOTAL INPUT SIGNALS 0
TOTAL OUTPUT SIGNALS 7
TOTAL SIGNALS 7

TOTAL INPUT MODULES 0
TOTAL OUTPUT MODULES 4
TOTAL MODULES 4

TOTAL SLOTS USED 8

TOTAL POWER REQUIRED 0.0

SUMMARY FOR ZONE 30 (CONTINUED)

PAGE 6

10/29/79

RM NUMBER 3

SUBZONE

1

IOU

31

OUTPUT_MODULE_TYPES

J SYNCHRO OUTPUT, DUAL/SINGLE SPEED, 400 HZ

2

LT SYNCHRO OUTPUT, TORQUE DEVICES, 60 HZ

2

SUMMARY FOR ZONE 40

10/29/79

PAGE 7

NUMBER OF PROMS 4
NUMBER OF IOUS 15
NUMBER OF IOUS 2

RM LOCATION
DECK FRAME TRANSVERSE
01 156 0

NUMBER OF SIGNALS
NUMBER OF MESSAGES
MESSAGE RATE, HZ
DATA RATE, BPS

INPUT OUTPUT TOTAL
89 63 152
8 7 15
1010 1260 2270
141760 190720 332480

---CAPACITY
17.32

SUBZONE

1 2

IOU

41 42

LOCATION: DECK
FRAME
TRANSVERSE

01 01
156 156
0 0

TOTAL INPUT SIGNALS
TOTAL OUTPUT SIGNALS
TOTAL SIGNALS

67 22
42 21
109 43

TOTAL INPUT MODULES
TOTAL OUTPUT MODULES
TOTAL MODULES

9 4
5 6
14 10

TOTAL SLOTS USED

15 16

TOTAL POWER REQUIRED

0.0 0.0

SUMMARY FOR ZONE 40 (CONTINUED)

10/29/79

PAGE 8

RM NUMBER 4

SUBZONE

1 2

INPUT_MODULE_TYPES

IOU

41 42

- B TRI-LEVEL DISCRETE INPUT
- C DC ANALOG INPUT, LOW RESOLUTION
- D DISCRETE INPUT, ISOLATED, VOLTAGE LEVEL
- J SYNCHRO INPUT, 4 CHANNEL
- P PARALLEL DATA INPUT, NTDS SLOW

1 0
1 0
4 0
2 4
1 0

OUTPUT_MODULE_TYPES

- A DISCRETE OUTPUT, ISOL., SWITCH CLOSURE, DC
- J SYNCHRO OUTPUT, DUAL/SINGLE SPEED, 400 HZ
- P PARALLEL DATA OUTPUT, NTDS SLOW

3 0
1 6
1 0

RM NUMBER	5	RM LOCATION	
NUMBER OF PROMS	14	DECK	01
NUMBER OF IOUS	2	FRAME	156
		TRANSVERSE	0
NUMBER OF SIGNALS	36	TOTAL	76
NUMBER OF MESSAGES	9		15
MESSAGE RATE, HZ	1310		2300
DATA RATE, BPS	141600		284000
		__CAPACITY	14.79

SUBZONE 1 2

IOU 51 52

LOCATION: DECK 1 01
 FRAME 58 156
 TRANSVERSE 1 0

TOTAL INPUT SIGNALS 23 13
 TOTAL OUTPUT SIGNALS 31 9
 TOTAL SIGNALS 54 22

TOTAL INPUT MODULES 3 4
 TOTAL OUTPUT MODULES 6 2
 TOTAL MODULES 9 6

TOTAL SLOTS USED 12 7

TOTAL POWER REQUIRED 0.0 0.0

SUMMARY FOR ZONE 50 (CONTINUED)

10/29/79

PAGE 10

RM NUMBER 5

SUBZONE

1 2

INPUT_MODULE_TYPES

10U

51 52

C DC ANALOG INPUT, LOW RESOLUTION
 D DISCRETE INPUT, ISOLATED, VOLTAGE LEVEL
 J SYNCHRO INPUT, 4 CHANNEL
 P PARALLEL DATA INPUT, NTDS SLOW

0 1
 1 0
 1 2
 1 1

OUTPUT_MODULE_TYPES

A DISCRETE OUTPUT, ISOL., SWITCH CLOSURE, DC
 C DC ANALOG OUTPUT, LOW RESOLUTION
 J SYNCHRO OUTPUT, DUAL/SINGLE SPEED, 400 HZ
 P PARALLEL DATA OUTPUT, NTDS SLOW

1 0
 1 0
 3 1
 1 1

SUMMARY FOR ZONE 60

10/29/79

PAGE 11

RM NUMBER 6
 NUMBER OF PROMS 7
 NUMBER OF IOUS 1

RM LOCATION
 DECK FRAME TRANSVERSE
 02 174 -2

INPUT
 NUMBER OF SIGNALS 23
 NUMBER OF MESSAGES 3
 MESSAGE RATE, HZ 60
 DATA RATE, BPS 33440

OUTPUT
 20
 4
 70
 33440

TOTAL
 43
 7
 130
 66880

--CAPACITY

3.48

SUBZONE

1

IOU

61

LOCATION: DECK
 FRAME
 TRANSVERSE

02
 174
 -2

TOTAL INPUT SIGNALS
 TOTAL OUTPUT SIGNALS
 TOTAL SIGNALS

23
 20
 43

TOTAL INPUT MODULES
 TOTAL OUTPUT MODULES
 TOTAL MODULES

3
 6
 9

TOTAL SLOTS USED

11

TOTAL POWER REQUIRED

0.0

RM NUMBER 6

SUBZONE

1

INPUT_MODULE_TYPES

IOU

61

A DISCRETE INPUT, SWITCH CLOSURE
D DISCRETE INPUT, ISOLATED, VOLTAGE LEVEL
P PARALLEL DATA INPUT, NTDS SLOW

1
1
1

OUTPUT_MODULE_TYPES

A DISCRETE OUTPUT, ISOL., SWITCH CLOSURE, DC
D DISCRETE OUTPUT, VOLTAGE LEVEL
G DISCRETE OUTPUT, ISOL., SWITCH CLOSURE, AC
J SYNCHRO OUTPUT, DUAL/SINGLE SPEED, 400 HZ
LT SYNCHRO OUTPUT, TORQUE DEVICES, 60 HZ
P PARALLEL DATA OUTPUT, NTDS SLOW

1
1
1
1
1
1

SUMMARY FOR ZONE 70

10/29/79

PAGE 13

RM NUMBER 7
 NUMBER OF PROMS 6
 NUMBER OF IOUS 1

RM LOCATION
 DECK FRAME TRANSVERSE
 01 205 1

	INPUT	OUTPUT	TOTAL	__CAPACITY
NUMBER OF SIGNALS	22	22	44	
NUMBER OF MESSAGES	4	2	6	
MESSAGE RATE, HZ	650	310	960	
DATA RATE, BPS	50400	20000	70400	3.67

SUBZONE 1

IOU 71

LOCATION: DECK 01
 FRAME 205
 TRANSVERSE 1

TOTAL INPUT SIGNALS 22
 TOTAL OUTPUT SIGNALS 22
 TOTAL SIGNALS 44

TOTAL INPUT MODULES 4
 TOTAL OUTPUT MODULES 6
 TOTAL MODULES 10

TOTAL SLOTS USED 14

TOTAL POWER REQUIRED 0.0

SUMMARY FOR ZONE 70 (CONTINUED)

10/29/79

PAGE 14

RM NUMBER 7

SUBZONE

1

INPUT_MODULE_TYPES

IOU

71

B TRI-LEVEL DISCRETE INPUT
 O DISCRETE INPUT, ISOLATED, VOLTAGE LEVEL
 J SYNCHRO INPUT, 4 CHANNEL

1
 1
 2

OUTPUT_MODULE_TYPES

D DISCRETE OUTPUT, VOLTAGE LEVEL
 G DISCRETE OUTPUT, ISOLATED, SWITCH CLOSURE, AC
 LT SYNCHRO OUTPUT, TORQUE DEVICES, 60 HZ

1
 1
 4

SUMMARY FOR ZONE 80

10/29/79

PAGE 15

RM NUMBER 8
 NUMBER OF PROMS 10
 NUMBER OF IOUS 2

RM LOCATION
 DECK 2
 FRAME 300
 TRANSVERSE 0

NUMBER OF SIGNALS
 NUMBER OF MESSAGES
 MESSAGE RATE, HZ
 DATA RATE, BPS

INPUT
 23
 3
 60
 6880

OUTPUT
 63
 7
 160
 11200

TOTAL
 86
 10
 220
 18080

---CAPACITY
 0.94

SUBZONE

1 2

IOU

81 82

LOCATION: DECK
 FRAME
 TRANSVERSE

2
 300
 0

5
 308
 27

TOTAL INPUT SIGNALS
 TOTAL OUTPUT SIGNALS
 TOTAL SIGNALS

4
 60
 64

19
 3
 22

TOTAL INPUT MODULES
 TOTAL OUTPUT MODULES
 TOTAL MODULES

1
 8
 9

3
 1
 4

TOTAL SLOTS USED

9 4

TOTAL POWER REQUIRED

0.0 0.0

SUMMARY FOR ZONE 80 (CONTINUED)

10/29/79

PAGE 16

RM NUMBER 8

SUBZONE

1 2

INPUT_MODULE_TYPES

IOU

81 82

B TRI-LEVEL DISCRETE INPUT

0 2

D DISCRETE INPUT, ISOLATED, VOLTAGE LEVEL

1 1

OUTPUT_MODULE_TYPES

A DISCRETE OUTPUT, ISOL., SWITCH CLOSURE, DC

2 1

B TRI-LEVEL DISCRETE OUTPUT

3 0

G DISCRETE OUTPUT, ISOL., SWITCH CLOSURE, AC

2 0

S SWITCHING CONTROL MODULE

1 0

APPENDIX O: MESSAGE TRACE TABLE

SIGNAL SW ID CL	SIGNAL NAME	MESSAGE NO.	RM	IOU	SLOT	CH	SBC	M	TYPE	RM	IOU	SLOT	CH	SBC	M	TYPE	UPDATE MODE	R	RATE	WORDS
0830	OSH INDICATOR IC RM #1	1	2	21	3	1	1	1	J	1	11	2	1	1	1	J	P	1	10	1
0040	SWITCH PORT REDUCTION GEAR A	2	8	81	9	1	1	1	D	1	11	1	1	1	1	A	P	1	10	
0041	SWITCH PORT REDUCTION GEAR B	2	8	81	9	1	2	1	D	1	11	1	1	2	1	A	P	1	10	
0030	SEWAGE PLANT PRESSURE SWITCH	2	8	82	4	1	1	1	D	1	11	1	2	1	1	A	P	1	10	
077141	OSH INDICATOR IC & GYRO RM 2	3	1	11	5	1	1	M	J	2	21	1	1	1	1	J	P	1	10	1
035181	OSH INC STEERING GEAR RM	4	2	21	3	2	1	1	J	2	22	4	1	1	1	J	P	1	10	1
085282	OSH INC STEERING GEAR RM	4	2	21	3	3	1	1	J	2	22	4	2	1	1	J	P	1	10	1
1730	AMMO SELECT AAC	5	4	41	9	1	1	1	D	2	22	1	1	1	1	A	P	1	10	
1740	AMMO SELECT APP	5	4	41	9	1	2	1	D	2	22	1	1	2	1	A	P	1	10	
1750	AMMO SELECT COM	5	4	41	9	1	3	1	D	2	22	1	1	3	1	A	P	1	10	
1760	AMMO SELECT CVT	5	4	41	9	1	4	1	D	2	22	1	1	4	1	A	P	1	10	
1770	AMMO SELECT ILL	5	4	41	9	2	1	1	D	2	22	1	2	1	1	A	P	1	10	
1780	AMMO SELECT PD	5	4	41	9	2	2	1	D	2	22	1	2	2	1	A	P	1	10	
1790	AMMO SELECT RAP	5	4	41	9	2	3	1	D	2	22	1	2	3	1	A	P	1	10	
1800	AMMO SELECT RED CHG	5	4	41	9	2	4	1	D	2	22	1	2	4	1	A	P	1	10	
1810	AMMO SELECT STD CHG	5	4	41	9	3	1	1	D	2	22	1	3	1	1	A	P	1	10	
1820	AMMO SELECT VT	5	4	41	9	3	2	1	D	2	22	1	3	2	1	A	P	1	10	
1830	AMMO SELECT WP	5	4	41	9	3	3	1	D	2	22	1	3	3	1	A	P	1	10	
1840	DIRECT CONTROL REQUEST	5	4	41	9	3	4	1	D	2	22	1	3	4	1	A	P	1	10	
1850	FUZE SETTER RUN	5	4	41	9	4	1	1	D	2	22	1	4	1	1	A	P	1	10	
1860	FUZE SETTER SAFE	5	4	41	9	4	2	1	D	2	22	1	4	2	1	A	P	1	10	
1870	LOAD ORDER SINGLE	5	4	41	9	4	3	1	D	2	22	1	4	3	1	A	P	1	10	
1871	LOAD ORDER CONTINUOUS	5	4	41	9	4	4	1	D	2	22	1	4	4	1	A	P	1	10	
0200	GYRO DRIVE ORDER A	5	4	41	10	1	1	1	D	2	23	1	1	1	1	A	P	1	10	
0230	GYRO DRIVE ORDER B	5	4	41	10	1	2	1	D	2	23	1	1	2	1	A	P	1	10	
0240	GYRO DRIVE ORDER C	5	4	41	10	1	3	1	D	2	23	1	1	3	1	A	P	1	10	
0250	MODE SELECT ORDER A	5	4	41	10	1	4	1	D	2	23	1	1	4	1	A	P	1	10	
0260	MODE SELECT ORDER B	5	4	41	10	2	1	1	D	2	23	1	2	1	1	A	P	1	10	
0270	MODE SELECT ORDER C	5	4	41	10	2	2	1	D	2	23	1	2	2	1	A	P	1	10	
0280	SEARCH DEPTH ORDER A	5	4	41	10	2	3	1	D	2	23	1	2	3	1	A	P	1	10	
0290	SEARCH DEPTH ORDER B	5	4	41	10	2	4	1	D	2	23	1	2	4	1	A	P	1	10	
0300	SEARCH DEPTH ORDER C	5	4	41	10	3	1	1	D	2	23	1	3	1	1	A	P	1	10	
0310	TUBE SELECT A	5	4	41	10	3	2	1	D	2	23	1	3	2	1	A	P	1	10	
0320	TUBE SELECT B	5	4	41	10	3	3	1	D	2	23	1	3	3	1	A	P	1	10	
0330	TUBE SELECT C	5	4	41	10	3	4	1	D	2	23	1	3	4	1	A	P	1	10	
0340	TUBE SELECT D	5	4	41	10	4	1	1	D	2	23	1	4	1	1	A	P	1	10	
0350	WEAPON ASSIGNED A	5	4	41	10	4	2	1	D	2	23	1	4	2	1	A	P	1	10	
0360	WEAPON ASSIGNED B	5	4	41	10	4	3	1	D	2	23	1	4	3	1	A	P	1	10	
0370	WEAPON ASSIGNED C	5	4	41	10	4	4	1	D	2	23	1	4	4	1	A	P	1	10	
0380	FIRE ORDER	5	4	41	11	1	1	1	D	2	23	2	1	1	1	A	P	1	10	
0390	ILLUMINATE ENABLE	5	4	41	11	1	2	1	D	2	23	2	1	2	1	A	P	1	10	
0430	STANDBY ORDER	5	4	41	11	1	3	1	D	2	23	2	1	3	1	A	P	1	10	
0510	TSP PRE TEST CONTROL	5	4	41	11	1	4	1	D	2	23	2	1	4	1	A	P	1	10	
0520	TSP TEST CONTROL CODE A	5	4	41	11	2	1	1	D	2	23	2	2	1	1	A	P	1	10	
0530	TSP TEST CONTROL CODE B	5	4	41	11	2	2	1	D	2	23	2	2	2	1	A	P	1	10	
0540	TSP TEST CONTROL CODE C	5	4	41	11	2	3	1	D	2	23	2	2	3	1	A	P	1	10	
0550	TSP TEST CONTROL CODE D	5	4	41	11	2	4	1	D	2	23	2	2	4	1	A	P	1	10	
1920	ELEVATION RATE ORDER	6	5	52	4	1	1	1	C	2	22	3	1	1	1	C	P	1	300	1
1960	TRAIN RATE ORDER	6	5	52	4	2	1	1	C	2	22	3	2	1	1	C	P	1	300	1
1971J1	FUZE SET ORDER	6	5	52	6	1	1	M	J	2	22	6	3	1	1	J	P	1	300	1

MESSAGE TRACE TABLE

10/29/79

PAGE 2

SIGNAL SW		MESSAGE		INPUT		OUTPUT		UPDATE		P		RATE		WORDS								
ID	CL	SIGNAL NAME	NO.	RM	IOU	SLOT	CH	SBC	M	TYPE	RM	IOU	SLOT	CH	SBC	M	TYPE	MODE	R			
1972J2		FUZE SET ORDER	MT52	6	5	52	6	2	1	M	J	2	22	6	4	1	J	P	1	300	1	
1911	A	GUN ELEVATION ORDER	MT52	7	5	52	5	1	1	J	J	2	22	4	3	1	J	P	1	300	1	
1912	A	GUN ELEVATION ORDER	MT52	7	5	52	5	2	1	J	J	2	22	4	4	1	J	P	1	300	1	
1931F1	A	GUN TRAIN ORDER	MT52	7	5	52	5	3	1	J	J	2	22	6	1	1	J	P	1	300	1	
1932F2	A	GUN TRAIN ORDER	MT52	7	5	52	5	4	1	J	J	2	22	6	2	1	J	P	1	300	1	
1911E1	B	GUN ELEVATION ORDER	MT52	8	7	71	13	1	1	J	J	2	22	4	3	1	J	P	1	300	1	
1912E2	B	GUN ELEVATION ORDER	MT52	8	7	71	13	2	1	J	J	2	22	4	4	1	J	P	1	300	1	
1931G1	B	GUN TRAIN ORDER	MT52	8	7	71	13	3	1	J	J	2	22	6	1	1	M	J	P	1	300	1
1932G2	B	GUN TRAIN ORDER	MT52	8	7	71	13	4	1	J	J	2	22	6	2	1	M	J	P	1	300	1
0210		GEN LP AIR MAN START COMMAND		9	8	81	9	2	1	D	D	2	22	2	1	1	A	P	1	10	1	
0761A1		OSH INDICATOR PILOT HOUSE		10	1	11	5	1	1	J	J	3	31	1	1	1	J	P	1	10	1	
0762A2		OSH INDICATOR PILOT HOUSE		10	1	11	5	2	1	J	J	3	31	1	2	1	J	P	1	10	1	
0861B1		OSH INJ SHIP CONTROL CONSOLE		11	2	21	3	2	1	M	J	3	31	1	3	1	J	P	1	10	1	
0862B2		OSH INJ SHIP CONTROL CONSOLE		11	2	21	3	3	1	M	J	3	31	1	4	1	J	P	1	10	1	
1955I1		GUN TRAIN POSITION	MT52	11	2	22	11	3	1	M	J	3	31	3	1	1	J	P	1	300	1	
0891C1		OSH TO SPS-40		12	4	42	13	1	1	M	J	3	31	5	1	1	LT	P	1	10	1	
0892C2		OSH TO SPS-40		12	4	42	13	2	1	M	J	3	31	7	1	1	LT	P	1	10	1	
0801A1		OSH INJ DATA PROCESSING CTR		13	1	11	5	1	1	M	J	4	42	1	1	1	J	P	1	10	1	
1880		GUN FIRED	MT52	14	2	22	10	1	1	D	D	4	41	1	1	1	A	P	1	10	1	
1890		GUN IN STANDBY	MT52	14	2	22	10	1	2	D	D	4	41	1	1	2	A	P	1	10	1	
1900		GUN READY TO FIRE	MT52	14	2	22	10	1	3	D	D	4	41	1	1	3	A	P	1	10	1	
1901		MOUNT SYNCH	MT52	14	2	22	10	1	4	D	D	4	41	1	1	4	A	P	1	10	1	
0371		SECTOR CLEAR STARBORD		14	2	23	3	1	1	D	D	4	41	1	2	1	A	P	1	10	1	
0372		SECTOR CLEAR PORT		14	2	23	3	1	2	D	D	4	41	1	2	2	A	P	1	10	1	
0400		LAUNCHER MISFIRE		14	2	23	3	1	3	D	D	4	41	1	2	3	A	P	1	10	1	
0410		LAUNCHER READY		14	2	23	3	1	4	D	D	4	41	1	2	4	A	P	1	10	1	
0420		FIRING SECTOR CLEAR		14	2	23	3	2	1	D	D	4	41	1	3	1	A	P	1	10	1	
0440		TORPEDO AWAY		14	2	23	3	2	2	D	D	4	41	1	3	2	A	P	1	10	1	
0450		TORPEDO SYSTEM MISFIRE		14	2	23	3	2	3	D	D	4	41	1	3	3	A	P	1	10	1	
0460		TORPEDO SYSTEM READY		14	2	23	3	2	4	D	D	4	41	1	3	4	A	P	1	10	1	
0470		TSP IN REMOTE		14	2	23	3	3	1	D	D	4	41	1	4	1	A	P	1	10	1	
0480		TSP MISFIRE		14	2	23	3	3	2	D	D	4	41	1	4	2	A	P	1	10	1	
0490		TSP OPERABILITY TEST IND		14	2	23	3	3	3	D	D	4	41	1	4	3	A	P	1	10	1	
0500		TSP OVERHEAT WARNING		14	2	23	3	3	4	D	D	4	41	1	4	4	A	P	1	10	1	
0560		TSP TEST MODE INDICATION		14	2	23	3	4	1	D	D	4	41	2	1	1	A	P	1	10	1	
0561		WEAPON READY		14	2	23	3	4	2	D	D	4	41	2	1	2	A	P	1	10	1	
0570		GYRO SETTING (SENSE) A		14	2	23	3	4	3	D	D	4	41	2	1	3	A	P	1	10	1	
0580		GYRO SETTING (SENSE) B		14	2	23	3	4	4	D	D	4	41	2	1	4	A	P	1	10	1	
0590		GYRO SETTING (SENSE) C		14	2	23	3	4	1	D	D	4	41	2	2	1	A	P	1	10	1	
0600		GYRO DEPTH SET (DEPTH IND) A		14	2	23	4	1	2	D	D	4	41	2	2	2	A	P	1	10	1	
0610		GYRO DEPTH SET (DEPTH IND) B		14	2	23	4	1	3	D	D	4	41	2	2	3	A	P	1	10	1	
0620		GYRO DEPTH SET (DEPTH IND) C		14	2	23	4	1	4	D	D	4	41	2	2	4	A	P	1	10	1	
0630		TUBE SELECTED A		14	2	23	4	2	1	D	D	4	41	2	3	1	A	P	1	10	1	
0640		TUBE SELECTED B		14	2	23	4	2	2	D	D	4	41	2	3	2	A	P	1	10	1	
0650		TUBE SELECTED C		14	2	23	4	2	3	D	D	4	41	2	3	3	A	P	1	10	1	
0660		TUBE STATUS 1		14	2	23	4	2	4	D	D	4	41	2	3	4	A	P	1	10	1	
0670		TUBE STATUS 2		14	2	23	4	3	1	D	D	4	41	2	4	1	A	P	1	10	1	

SIGNAL SW	CL	NO.	SIGNAL NAME	MESSAGE	RM	IOU	SLOT	CH	SBC	M	TYPE	RM	IOU	SLOT	CH	SBC	M	TYPE	UPDATE	P	R	RATE	WORDS
0680		14	TUBE STATUS 3		2	23	4	3	2	2	D	4	41	2	4	2	4	2	A	P	1	10	10
0690		14	TUBE STATUS 4		2	23	4	3	3	3	D	4	41	2	4	3	4	3	A	P	1	10	10
0700		14	TUBE STATUS 5		2	23	4	3	4	4	D	4	41	2	4	4	4	4	A	P	1	10	10
0710		14	TUBE STATUS 6		2	23	4	4	1	1	D	4	41	3	1	1	1	1	A	P	1	10	10
194341		14	GUN ELEVATION POSITION MT52		2	22	11	1	1	M	J	4	42	1	2	1	1	1	J	P	1	300	1
194442		14	GUN ELEVATION POSITION MT52		2	22	11	2	1	M	J	4	42	1	3	1	1	1	J	P	1	300	1
195311		14	GUN TRAIN POSITION MT52		2	22	11	3	1	M	J	4	42	1	4	1	1	1	J	P	1	300	1
195412		14	GUN TRAIN POSITION MT52		2	22	11	4	1	M	J	4	42	3	1	1	1	1	J	P	1	300	1
0871C1		15	OSW TO RADAR AZIMUTH CONVERT		4	42	13	1	1	1	J	4	42	3	2	1	1	1	J	P	1	300	1
0872C2		15	OSW TO RADAR AZIMUTH CONVERT		4	42	13	2	1	1	J	4	42	3	3	1	1	1	J	P	1	300	1
0981		15	OSW TO SOT MK1 MOD3		4	42	13	3	1	1	J	4	42	3	4	1	1	1	J	P	1	300	1
0982		15	OSW TO SOT MK1 MOD3		4	42	13	4	1	1	J	4	42	5	1	1	1	1	J	P	1	300	1
0991		15	ROLL TO SOT MK1 MOD3		4	42	14	1	1	1	J	4	42	5	2	1	1	1	J	P	1	300	1
0992		15	ROLL TO SOT MK1 MOD3		4	42	14	2	1	1	J	4	42	5	3	1	1	1	J	P	1	300	1
1001		15	PITCH TO SOT MK1 MOD3		4	42	14	3	1	1	J	4	42	5	4	1	1	1	J	P	1	300	1
1002		15	PITCH TO SOT MK1 MOD3		4	42	14	4	1	1	J	4	42	7	1	1	1	1	J	P	1	300	1
1011		15	OWN SHIP SPEED TO SOTMK1MOD3		4	42	15	1	1	1	J	4	42	7	2	1	1	1	J	P	1	300	1
1012		15	OWN SHIP SPEED TO SOTMK1MOD3		4	42	15	2	1	1	J	4	42	7	3	1	1	1	J	P	1	300	1
1630		16	GUN IN STANDBY	MT51	5	51	10	1	1	1	D	4	41	3	2	1	1	1	A	P	1	10	10
1640		16	GUN FIRED	MT51	5	51	10	1	2	1	D	4	41	3	2	2	1	1	A	P	1	10	10
1650		16	GUN READY TO FIRE	MT51	5	51	10	1	3	1	D	4	41	3	2	3	1	1	A	P	1	10	10
1651		16	MOUNT SYNC	MT51	5	51	10	1	4	1	D	4	41	3	2	4	1	1	A	P	1	10	10
0720		17	SORAR TGT SIMULATOR INPUT		5	51	12	1	1	1	P	4	41	6	1	1	1	1	P	P	1	40	50
1711		18	GUN ELEVATION POSITION MT51		5	51	11	1	1	1	J	4	41	4	1	1	1	1	J	P	1	300	1
1712		18	GUN ELEVATION POSITION MT51		5	51	11	2	1	1	J	4	41	4	2	1	1	1	J	P	1	300	1
1721		18	GUN TRAIN POSITION MT51		5	51	11	3	1	1	J	4	41	4	3	1	1	1	J	P	1	300	1
1722		18	GUN TRAIN POSITION MT51		5	51	11	4	1	1	J	4	41	4	4	1	1	1	J	P	1	300	1
1913E1		19	GUN ELEVATION ORDER MT52		7	71	13	1	1	M	J	4	42	7	4	1	1	1	J	P	1	300	1
1914E2		19	GUN ELEVATION ORDER MT52		7	71	13	2	1	M	J	4	42	9	1	1	1	1	J	P	1	300	1
1933G1		19	GUN TRAIN ORDER MT52		7	71	13	3	1	M	J	4	42	9	2	1	1	1	J	P	1	300	1
1934G2		19	GUN TRAIN ORDER MT52		7	71	13	4	1	M	J	4	42	9	3	1	1	1	J	P	1	300	1
1975		19	TGT-2 DESIGNATED RANGE		7	71	14	1	1	1	J	4	42	9	4	1	1	1	J	P	1	300	1
1976		19	TGT-2 DESIGNATED RANGE		7	71	14	2	1	1	J	4	42	11	1	1	1	1	J	P	1	300	1
194141 C		20	GUN ELEVATION POSITION MT52		2	22	11	1	1	1	J	5	52	1	3	1	1	1	M	J	1	300	1
194242 C		20	GUN ELEVATION POSITION MT52		2	22	11	2	1	1	J	5	52	1	4	1	1	1	M	J	1	300	1
195111 C		20	GUN TRAIN POSITION MT52		2	22	11	3	1	1	J	5	52	1	1	1	1	1	J	P	1	300	1
195212 C		20	GUN TRAIN POSITION MT52		2	22	11	4	1	1	J	5	52	1	2	1	1	1	J	P	1	300	1
1480		21	AMMO SELECT ACC	MT51	4	41	11	3	1	1	D	5	51	1	1	1	1	1	A	P	1	10	10
1490		21	AMMO SELECT APP	MT51	4	41	11	3	2	1	D	5	51	1	1	2	1	1	A	P	1	10	10
1500		21	AMMO SELECT COM	MT51	4	41	11	3	3	1	D	5	51	1	1	3	1	1	A	P	1	10	10
1510		21	AMMO SELECT CVT	MT51	4	41	11	3	4	1	D	5	51	1	1	4	1	1	A	P	1	10	10
1520		21	AMMO SELECT ILL	MT51	4	41	11	4	1	1	D	5	51	1	2	1	1	1	A	P	1	10	10
1530		21	AMMO SELECT PD	MT51	4	41	11	4	2	1	D	5	51	1	2	2	1	1	A	P	1	10	10
1540		21	AMMO SELECT RAP	MT51	4	41	11	4	3	1	D	5	51	1	2	3	1	1	A	P	1	10	10
1550		21	AMMO SELECT RED CHG	MT51	4	41	11	4	4	1	D	5	51	1	2	4	1	1	A	P	1	10	10
1560		21	AMMO SELECT STD CHG	MT51	4	41	12	1	1	1	D	5	51	1	3	1	1	1	A	P	1	10	10
1570		21	AMMO SELECT VT	MT51	4	41	12	1	2	1	D	5	51	1	3	2	1	1	A	P	1	10	10
1580		21	AMMO SELECT WP	MT51	4	41	12	1	3	1	D	5	51	1	3	3	1	1	A	P	1	10	10

10/29/79

MESSAGE-TRACE TABLE

SIGNAL SW	CL	CL	SIGNAL NAME	MESSAGE NO.	RM	IOU	SLOT	CH	SBC	M	TYPE	RM	IOU	SLOT	CH	SBC	M	TYPE	UPDATE MODE	P	R	RATE	WORDS
1590			DIRECT CONTROL REQUEST MT51	21	4	41	12	1	4		D	5	51	1	3	4		A	P	1	1	10	
1600			FUZE SETTER RUN MT51	21	4	41	12	2	1		D	5	51	1	4	1		A	P	1	1	10	
1610			FUZE SETTER SAFE MT51	21	4	41	12	2	2		D	5	51	1	4	2		A	P	1	1	10	
1620			LOAD ORDER SINGLE MT51	21	4	41	12	2	3		D	5	51	1	4	3		A	P	1	1	10	
1621			LOAD ORDER CONTINUOUS MT51	21	4	41	12	2	4		D	5	51	1	4	4		A	P	1	1	10	
0841			OSH TO AN/SQS-53 SONAR (ICSS)	21	4	42	15	3	1		J	5	51	5	3	1		J	P	1	1	10	1
0842			OSH TO AN/SQS-53 SONAR (ICSS)	21	4	42	15	4	1		J	5	51	5	4	1		J	P	1	1	10	1
094101			ROLL TO SOS-53 SONAR (ICSS)	21	4	42	16	1	1		J	5	51	7	1	1		J	P	1	1	10	1
094202			ROLL TO SOS-53 SONAR (ICSS)	21	4	42	16	2	1		J	5	51	7	2	1		J	P	1	1	10	1
0971			PITCH TO SOS-53 SONAR (ICSS)	21	4	42	16	3	1		J	5	51	7	3	1		J	P	1	1	10	1
0972			PITCH TO SOS-53 SONAR (ICSS)	21	4	42	16	4	1		J	5	51	7	4	1		J	P	1	1	10	1
0730			SONAR TGT SIMULATOR OUTPUT	22	4	41	15	1	1		P	5	51	9	1	1		P	P	1	1	40	50
1680			ELEVATION RATE ORDER MT51	23	4	41	8	1	1		C	5	51	2	1	1		C	P	1	1	300	1
1700			TRAIN RATE ORDER MT51	23	4	41	8	2	1		C	5	51	2	2	1		C	P	1	1	300	1
1661			FUZE SET ORDER MT51	23	4	41	13	1	1		J	5	51	3	1	1		J	P	1	1	300	1
1662			FUZE SET ORDER MT51	23	4	41	13	2	1		J	5	51	3	2	1		J	P	1	1	300	1
1671			GUN ELEVATION ORDER MT51	23	4	41	13	3	1		J	5	51	3	3	1		J	P	1	1	300	1
1672			GUN ELEVATION ORDER MT51	23	4	41	13	4	1		J	5	51	3	4	1		J	P	1	1	300	1
1691			GUN TRAIN ORDER MT51	23	4	41	14	1	1		J	5	51	5	1	1		J	P	1	1	300	1
1692			GUN TRAIN ORDER MT51	23	4	41	14	2	1		J	5	51	5	2	1		J	P	1	1	300	1
1941F1 D			GUN ELEVATION POSITION MT52	24	5	52	5	3	1	M	J	5	52	1	3	1		J	P	1	1	300	1
1942F2 D			GUN ELEVATION POSITION MT52	24	5	52	5	4	1	M	J	5	52	1	4	1		J	P	1	1	300	1
1951J1 D			GUN TRAIN POSITION MT52	24	5	52	6	1	1		J	5	52	1	1	1	M	J	P	1	1	300	1
1952J2 D			GUN TRAIN POSITION MT52	24	5	52	6	2	1		J	5	52	1	2	1	M	J	P	1	1	300	1
0740			I/O DISPLAY GP AN/UUA-6 IN	25	6	61	11	1	1		P	5	52	3	1	1		P	P	1	1	40	50
0781A1			OSH INDICATOR #1 CIC	26	1	11	5	1	1	M	J	6	61	4	1	1		J	P	1	1	10	1
0791A1			OSH INDICATOR #2 CIC	26	1	11	5	1	1	M	J	6	61	4	2	1		J	P	1	1	10	1
0821A1			OSH TO SONAR CONTROL (CIC)	26	1	11	5	1	1	M	J	6	61	4	3	1		J	P	1	1	10	1
0811A1			OSH TO VERT PLOT ERD (CIC)	26	1	11	5	1	1	M	J	6	61	6	1	1		LT	P	1	1	10	1
1121X1			HI LEVEL FILL-AUDIBLE ALARM	27	5	51	10	3	1	M	D	6	61	3	1	1		G	P	1	1	10	
1161X2			LO DOME WATER PR-AUDIBLE AL	27	5	51	10	3	2	M	D	6	61	3	1	2		G	P	1	1	10	
1171X3			LO DOME WATER PR-VISUAL AL	27	5	51	10	3	3	M	D	6	61	3	1	3		G	P	1	1	10	
1181X4			HI DOME WATER PR-AUDIBLE AL	27	5	51	10	3	4	M	D	6	61	3	1	4		G	P	1	1	10	
1191X5			HI DOME WATER PR-VISUAL AL	27	5	51	10	4	1	M	D	6	61	3	2	1		G	P	1	1	10	
1211X6			LO PRESS AIR-AUDIBLE ALARM	27	5	51	10	4	2	M	D	6	61	3	2	2		G	P	1	1	10	
1220			FLOW SWITCH - WATER ON	27	5	51	10	2	1		D	6	61	3	2	3		G	P	1	1	10	
1230			FLOW SWITCH - WATER OFF	27	5	51	10	2	2		D	6	61	3	2	4		G	P	1	1	10	
0750			I/O DISPLAY GP AN/UUA-6 OUT	28	5	62	7	1	1		P	6	61	8	1	1		P	P	1	1	40	50
1040			TACAN EMERG SHUTDN INDICATOR	29	7	71	12	1	1		D	6	61	1	1	1		A	P	1	1	10	
1050			TRANSPONDER ON INDICATOR	29	7	71	12	1	2		D	6	61	1	1	2		A	P	1	1	10	
1060			TRANSPONDER STANDBY	29	7	71	12	1	3		D	6	61	1	1	3		A	P	1	1	10	
1070			MONITOR ALARM	29	7	71	12	1	4		D	6	61	1	1	4		A	P	1	1	10	
1080			SYSTEM NORMAL	29	7	71	12	2	1		D	6	61	2	1	1		D	P	1	1	10	
1350			28VAC RADIATE/RECEIVER TEST	29	7	71	12	2	2		D	6	61	3	3	1		G	P	1	1	10	
1400			ANTENNA INTERLOCK/OPERATE	29	7	71	12	2	3		D	6	61	3	3	2		G	P	1	1	10	
0931C1			OSH TO TDT #2 (VIA ICSS)	30	4	42	13	1	1	M	J	7	71	7	1	1		LT	P	1	1	10	1

10/29/79

MESSAGE TRACE TABLE

SIGNAL SW	CL	NO.	MESSAGE	INPUT			OUTPUT			UPDATE		P	R	RATE	WORDS								
----- SIGNAL NAME -----				RM	IOU	SLOT	CH	SBC	M	TYPE	RM	IOU	SLOT	CH	SBC	M	TYPE	MODE					
095101		30	ROLL TO TACAN	4	42	16	1	1	M	J	7	71	9	1	1	1	1	LT	P	1	1	10	1
096101		30	OSM TO TACAN	4	42	13	1	1	M	J	7	71	3	1	1	1	1	LT	P	1	1	300	1
098222		30	OSM TO TACAN	4	42	13	2	1	M	J	7	71	5	1	1	1	1	LT	P	1	1	300	1
1020		31	TACAN EMERGENCY NORMAL	6	61	9	1	1	A		7	71	1	1	1	1	1	D	P	1	1	10	
1030		31	TACAN EMERGENCY SHUTDOWN	6	61	9	1	2	A		7	71	1	1	2	1	1	D	P	1	1	10	
1280		31	CABINET INTERLOCK 28VAC	6	61	10	1	1	D		7	71	2	1	1	1	1	G	P	1	1	10	
1290		31	STANDBY INDICATOR	6	61	10	1	2	D		7	71	2	1	2	1	1	G	P	1	1	10	
1300		31	28VAC CABINET RADIATE REMOTE	6	61	10	1	3	D		7	71	2	1	3	1	1	G	P	1	1	10	
1310		31	COOLANT FLOW ALARM INDICATOR	6	61	10	1	4	D		7	71	2	1	4	1	1	G	P	1	1	10	
1320		31	LFCM ANTENNA SPD CHANGE IND	6	61	10	2	1	D		7	71	2	2	1	1	1	G	P	1	1	10	
1330		31	LOCAL INDICATOR	6	61	10	2	2	D		7	71	2	2	2	2	1	G	P	1	1	10	
1340		31	RADIATE INDICATOR	6	61	10	2	3	D		7	71	2	2	3	1	1	G	P	1	1	10	
1360		31	READY INDICATOR	6	61	10	2	4	D		7	71	2	2	4	1	1	G	P	1	1	10	
1370		31	PRESTANDBY REMOTE	6	61	10	3	1	D		7	71	2	3	1	1	1	G	P	1	1	10	
1380		31	RENTITE LFCM/LRM POWER IND	6	61	10	3	2	D		7	71	2	3	2	1	1	G	P	1	1	10	
1390		31	STANDBY RECEIVER TEST	6	61	10	3	3	D		7	71	2	3	3	1	1	G	P	1	1	10	
1410		31	ANTENNA OPERATE INDICATOR	6	61	10	3	4	D		7	71	2	3	4	1	1	G	P	1	1	10	
1420		31	DUMMY LOAD INDICATOR	6	61	10	4	1	D		7	71	2	4	1	1	1	G	P	1	1	10	
1421		31	STANDBY/RADIATE	6	61	10	4	2	D		7	71	2	4	2	1	1	G	P	1	1	10	
1430		31	CABINET OVERHEAT ALARM IND	6	61	10	4	3	D		7	71	2	4	3	1	1	G	P	1	1	10	
1440		31	AIR PRESSURE ALARM INDICATOR	6	61	10	4	4	D		7	71	2	4	4	1	1	G	P	1	1	10	
1980		32	AIR COND PLT 1 SUMMARY FAULT	1	11	4	1	1	D		8	81	1	1	1	1	1	A	P	1	1	10	
1990		32	AIR COND PLT 2 SUMMARY FAULT	1	11	4	1	2	D		8	81	1	1	2	1	1	A	P	1	1	10	
2000		32	EDUCTOR SUPPLY VALVE OPEN	1	11	4	1	3	D		8	81	6	1	1	1	1	G	P	1	1	10	
2010		32	EDUCTOR SUPPLY VALVE CLOSED	1	11	4	1	4	D		8	81	6	1	2	1	1	G	P	1	1	10	
2020		32	EDUCTOR SUCTION VALVE OPEN	1	11	4	2	1	D		8	81	6	1	3	1	1	G	P	1	1	10	
2030		32	EDUCTOR SUCTION VALVE CLOSED	1	11	4	2	2	D		8	81	6	1	4	1	1	G	P	1	1	10	
2040		32	EDUCTOR DISCHARGE VALVE OPEN	1	11	4	2	3	D		8	81	6	2	1	1	1	G	P	1	1	10	
2050		32	EDUCTOR DISCHARGE VALVE CLOSED	1	11	4	2	4	D		8	81	6	2	2	1	1	G	P	1	1	10	
2060		32	SEAWATER PUMP 2 SUC VAL OPEN	1	11	4	3	1	D		8	81	6	2	3	1	1	G	P	1	1	10	
2070		32	SEAWATER PUMP 2 SUC VAL CLSD	1	11	4	3	2	D		8	81	6	2	4	1	1	G	P	1	1	10	
2080		32	SEAWATER ISOLATION VAL OPEN	1	11	4	3	3	D		8	81	6	3	1	1	1	G	P	1	1	10	
2090		32	SEAWATER ISOLATION VAL CLSD	1	11	4	3	4	D		8	81	6	3	2	1	1	G	P	1	1	10	
2100		32	BHD 300 ISOLATION VAL OPEN	1	11	4	4	1	D		8	81	6	3	3	1	1	G	P	1	1	10	
2110		32	BHD 300 ISOLATION VAL CLSD	1	11	4	4	2	D		8	81	6	3	4	1	1	G	P	1	1	10	
0160		33	HEATER ON, GEN #3 MON/IND	2	22	10	2	1	D		8	81	1	2	1	1	1	A	P	1	1	10	
0170		33	GEN OPEN (TRIP'D) STATUS SIG	2	22	10	2	2	D		8	81	1	2	2	1	1	A	P	1	1	10	
0180		33	GEN CLOSED STATUS SIGNAL	2	22	10	2	3	D		8	81	1	2	3	1	1	A	P	1	1	10	
0050		33	TURBINE INLET TEMP HI ALARM	2	23	5	1	1	D		8	81	1	3	1	1	1	A	P	1	1	10	
0070		33	LUBO FILTER DELTA P HIGH	2	23	5	1	2	D		8	81	1	3	2	1	1	A	P	1	1	10	
0080		33	FUEL OIL FILTER DELTA P HIGH	2	23	5	1	3	D		8	81	1	3	3	1	1	A	P	1	1	10	
0090		33	LUBO TEMPERATURE HIGH ALARM	2	23	5	1	4	D		8	81	1	3	4	1	1	A	P	1	1	10	
0100		33	ENCLOSURE TEMP HIGH ALARM	2	23	5	2	1	D		8	81	1	4	1	1	1	A	P	1	1	10	
0110		33	GENERATOR STATOR TEMP HIGH	2	23	5	2	2	D		8	81	1	4	2	1	1	A	P	1	1	10	
0120		33	AIR TEMPERATURE HIGH ALARM	2	23	5	2	3	D		8	81	1	4	3	1	1	A	P	1	1	10	
0130		33	REAR BEARING TEMP HIGH ALARM	2	23	5	2	4	D		8	81	1	4	4	1	1	A	P	1	1	10	
0140		33	FRT BEARING TEMP HIGH ALARM	2	23	5	3	1	D		8	81	2	1	1	1	1	A	P	1	1	10	
0150		33	LUBO PRESSURE LOW ALARM	2	23	5	3	2	D		8	81	2	1	2	1	1	A	P	1	1	10	
1240		34	ASROC COOLING ALARM	4	41	7	1	1	B		8	81	3	1	1	1	1	B	P	1	1	40	
1250		34	SONAR COOLING ALARM	4	41	7	1	2	B		8	81	3	1	2	1	1	B	P	1	1	40	

10/29/79

PAGE 6

MESSAGE TRACE TABLE

SIGNAL SW ID CL	MESSAGE NO.	SIGNAL NAME	MESSAGE			INPUT			OUTPUT			UPDATE			RATE	WORDS		
			RM	IOU	SLOT	CH	SBC	M	TYPE	RM	IOU	SLOT	CH	SBC			M	TYPE
1120x1		HI LEVEL FILL-AUDIBLE ALARM	35	5	51	10	3	1	D	8	81	6	4	1	G	P	1	10
1160x2		LO DOME WATER PR-AUDIBLE AL	35	5	51	10	3	2	D	8	81	6	4	2	G	P	1	10
1170x3		LO DOME WATER PR-VISUAL AL	35	5	51	10	3	3	D	8	81	6	4	3	G	P	1	10
1180x4		HI DOME WATER PR-AUDIBLE AL	35	5	51	10	3	4	D	8	81	6	4	4	G	P	1	10
1190x5		HI DOME WATER PR-VISUAL AL	35	5	51	10	4	1	D	8	81	7	1	1	G	P	1	10
1210x6		LO PRESS AIR-AUDIBLE ALARM	35	5	51	10	4	2	D	8	81	7	1	2	G	P	1	10
2121		MT52 SELECT MK-86	36	6	61	9	2	1	A	8	81	8	1	1	S	P	1	10
2122		MT52 SELECT TOT #2	36	6	61	9	2	2	A	8	81	8	2	1	S	P	1	10
2131		POSITION SELECT SDC	36	6	61	9	2	3	A	8	81	8	3	1	S	P	1	10
2132		POSITION SELECT EAT	36	6	61	9	2	4	A	8	81	8	4	1	S	P	1	10
1090		HI TEMP DET-B (AV STORE RM)	37	7	71	11	1	1	B	8	81	3	2	1	B	P	1	40
1091		HI TEMP DET-A (RDY TORP LKR)	37	7	71	11	1	2	B	8	81	3	2	2	B	P	1	40
1092		HI TEMP DET-C (HELO HANGER)	37	7	71	11	2	1	B	8	81	3	3	1	B	P	1	40
1260		ELEX HI TEMP ALARM (AL LP 1)	37	7	71	11	2	2	B	8	81	3	3	2	B	P	1	40
1270		ELEX HI TEMP ALARM (AL LP 2)	37	7	71	11	3	1	B	8	81	3	4	1	B	P	1	40
0050		OIL LEVEL SWITCH STBD HUB	38	8	81	9	3	1	D	8	82	1	1	1	A	P	1	10
0010		TANK TEMPERATURE SW 1	38	8	82	4	2	1	D	8	82	1	2	1	A	P	1	10
0020		TANK TEMPERATURE SW 2	38	8	82	4	2	2	D	8	82	1	2	2	A	P	1	10
1100		BILGE LEVEL 6-338-2-F	38	8	82	2	1	1	B	8	81	4	1	1	B	P	1	40
1101		BILGE LEVEL 4-464-0-T	38	8	82	2	1	2	B	8	81	4	1	2	B	P	1	40
1102		BILGE LEVEL 6-464-3-Q	38	8	82	2	2	1	B	8	81	4	2	1	B	P	1	40
1103		BILGE LEVEL 6-382-4-V	38	8	82	2	2	2	B	8	81	4	2	2	B	P	1	40
1104		BILGE LEVEL 6-506-0-F	38	8	82	2	3	1	B	8	81	4	3	1	B	P	1	40
1105		BILGE LEVEL 3-426-1-E	38	8	82	2	3	2	B	8	81	4	3	2	B	P	1	40
1106		BILGE LEVEL 3-398-0-Q	38	8	82	2	4	1	B	8	81	4	4	1	B	P	1	40
1107		BILGE LEVEL 2-518-1-V	38	8	82	2	4	2	B	8	81	4	4	2	B	P	1	40
1110		BILGE LEVEL 5-174-0-E	38	8	82	3	1	1	B	8	81	5	1	1	B	P	1	40
1111		BILGE LEVEL 5-220-01-E	38	8	82	3	1	2	B	8	81	5	1	2	B	P	1	40
1112		BILGE LEVEL 5-260-01-E	38	8	82	3	2	1	B	8	81	5	2	1	B	P	1	40
1113		BILGE LEVEL 5-300-0-E	38	8	82	3	2	2	B	8	81	5	2	2	B	P	1	40
1114		BILGE LEVEL 6-382-3-V	38	8	82	3	3	1	B	8	81	5	3	1	B	P	1	40
1115		BILGE LEVEL PORT SHAFT ALLEY	38	8	82	3	3	2	B	8	81	5	3	2	B	P	1	40
1116		BILGE LEVEL STBD SHAFT ALLEY	38	8	82	3	4	1	B	8	81	5	4	1	B	P	1	40
1117		BILGE LEVEL SEWAGE PLANT	38	8	82	3	4	2	B	8	81	5	4	2	B	P	1	40

APPENDIX P: SYSTEM SUMMARY DATA

SYSTEM SUMMARY

10/29/79

PAGE 17

NUMBER OF RM'S 8

NUMBER OF PROM'S 74

NUMBER OF IOU'S 13

NUMBER OF INPUT SIGNALS 275

NUMBER OF OUTPUT SIGNALS 275

NUMBER OF MESSAGES 38

MESSAGE RATE, HZ 4070.

DATA RATE, BPS 473120.

TOTAL INPUT MODULES 39

TOTAL OUTPUT MODULES 55

TOTAL MODULES 94

TOTAL SLOTS USED 120

SYSTEM SUMMARY (CONTINUED)

10/29/79

PAGE 18

INPUT_MODULE_TYPES

	NUMBER	SPARE_CAPACITY
A DISCRETE INPUT, SWITCH CLOSURE	1	10
B TRI-LEVEL DISCRETE INPUT	4	9
C DC ANALOG INPUT, LOW RESOLUTION	2	12
D DISCRETE INPUT, ISOLATED, VOLTAGE LEVEL	14	66
J SYNCHRO INPUT, 4 CHANNEL	14	9
P PARALLEL DATA INPUT, NTDS SLOW	4	0

SYSTEM SUMMARY (CONTINUED)

10/23/79

PAGE 19

OUTPUT_MODULE_TYPES

SPARE_CAPACITY

NUMBER

A DISCRETE OUTPUT, ISOL., SWITCH CLOSURE, DC
 B TRI-LEVEL DISCRETE OUTPUT
 C DC ANALOG OUTPUT, LOW RESOLUTION
 D DISCRETE OUTPUT, VOLTAGE LEVEL
 G DISCRETE OUTPUT, ISOL., SWITCH CLOSURE, AC
 J SYNCHRO OUTPUT, DUAL/SINGLE SPEED, 400 HZ
 LT SYNCHRO OUTPUT, TORQUE DEVICES, 60 HZ
 P PARALLEL DATA OUTPUT, NTDS SLOW
 S SWITCHING CONTROL MODULE

13
 3
 2
 2
 4
 19
 7
 4
 1

89
 1
 12
 29
 20
 15
 0
 0
 12

10/29/79

OUTPUT TYPE	NO. SIGNALS
A	119
P	4
M1	32
M2	29
J	6
LT	2
L1	3
L2	2
D	3
B	23
G	44
C	4
SD	4
	275

END
DTIC

9-86